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COLMAN'S RURAL WORLD.

HORMAN J. COLMAN, EDITORS.

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the best advertising medium of its class
in the United States. Address all letters
to COLMAN'S RURAL WORLD, Chemical Building, St. Louis, Mo.

allowed old subscribers to send actually NEW OR TRIAL subscribers with their own subscriptions at fifty cents a year, in order to largely increase the circulation and influence of the paper. This price is less than the cost of the white paper, presswork, folding, wrapping, mailing and processory, folding, wrapping, mailing and large fair ever held. This is due principles. prepaying the postage, saying nothing of any other of the large expenses of maintaining offices, paying salaries and conducting such a paper in a large city. Reducting such a paper in a large city. Resuch as the convenience of the convenience and comfort of agriculturists and grang newals, unless accompanied by one or or are claborate as to scope and commore. NEW subscribers, must be at one dollar a year. All names are dropped as soon as subscriptions expire. The month named on the address tag, pasted on each an addition to which may be found on file more than one hundred agricultural, horticultural and live stock publication. dollar a year. All names are dropped as soon as subscriptions expire. The month named on the address tag, pasted on each issue, shows the month subscriptions expire, and renewals should be made two or three weeks before, so that names shall not drop out of list. It is gratifying to the proprietor to be able to state, in his half century's experience in conducting this paper, it has never enjoyed the patronage and prosperity it now does. Its circulation is increasing in a wonderful degree, and its advertising patrons, many of whom have used its columns for a secondary and the state of the develop some of the largest crowds of the season.

Determined with the usual accommodations in addition to which may be found on file more than one hundred agriculturals and live stock publications. The grangers of the country have signified their appreciation by arranging special days, and a great number of excursions emanating from all points of the compass. As there are 60,000 granders are successful. Of course, the corn can be cut and put in the shock by hand, but it is very hard work as we know from many a day's experience, and the machine will do it faster and cheaper. Once in grange week, commencing agust 25, is expected to develop some of the largest crowds of the season.

October 10 has been set aside as a specific or season. quarter or a third of a century, are more than pleased with results. Let all our quarter or a tine of a century, are more than pleased with results. Let all our friends unite and press forward in ex-tending its sphere of influence. It will do for others what it is doing for you, so get others to join the great RURAL WORLD army and receive the same benefit.

success of the Fair. In the two weeks the gro intervening between this date and that of the opening of the Fair much can be done towards making a display of Missouri's farm products, such as will astonish the country in this drouth year.

President McKinley has accepted an invitation to be present at the Pan-American on September 4 and 5. He will speak in the Stadium at 4:30 on the afternoon of the 5th. This is the largest structure in America, and it is expected that 25,000 people will hear President McKinley on this occasion. President's day is designated to be the greatest day in the history of the Exposition. Members of the President's Cabinet will be present; the Supreme Court and Diplomatic Corps, the heads of many Government departments, together with members of their respective staffs and a great many special features, arrangements for which have not as yet been fully completed.

World's Fair in 1906. This lead of the stock breeders should be followed by all agricultural organizations, and conferences be called at an early date looking to the securing of adequate agricultural exhibits.

It would have been well, it seems to us, to have arranged for meetings of representatives of all the various lines of agricultural colleges and experiments. Then, reader, do not forget that our agricultural colleges and experiments when the fine stand ready to give assistance to fael to be made up of a representatives could be the mouthpleces of each special interest. These representatives could be the mouthpleces of their respective organizations, and then the proposed in the farming business yield a live to discuss the fail. Workld yield 40 bushels per acre. It lodged so badly that it made about agricultural organizations, and confers. My little places is "cropped" for shares—tenant or renter delivers me ticles we are inclined to think it due to others. My little places is "cropped" for shares—tenant or renter delivers me others. My little places is "cropped" for shares—tenant or renter delivers me others. My little places is "cropped" for shares—tenant or renter delivers me others. My little places is "cropped" for shares—tenant or renter delivers me others. My little places is "cropped" for shares—tenant or renter delivers me others. My little places is "cropped" for shares—tenant or renter delivers me others. My little places is "cropped" for shares—tenant or renter delivers me others. My little places of offers was prevented in the barn, except the fodder. Washington, D. C.

Washington, D their respective organizations, and they as a body would be of great assistance While the RURAL WORLD is published at one dollar a year, it has temporarily ing a magnificent agricultural display.

GRANGERS

At the Pan-American Exposition.

the attendance of farmers and those in-terested in agricultural pursuits. New York State grange day is August 28, when

THE BUSINESS OF FARMING

Calls for the Use of Business Character

When adversity has touched one, he is little inclined to accept counsel, how-ever kindly the spirit in which it is given. The farmers of this Central West are in

saving forage crop is an excellent thing, a silo is not so essential in connectica with general farm stock as with dairy cows. With a herd of 25 cows, we think it would pay well to build a silo, and by this means save the corn fodder in tha succulent condition that is so essentia to a good milk flow. We are not so sur-that it would pay to go to much expense for a silo and ensilage cutting machinery for general farm stock, and in a country

expected to develop some of the sales of crowds of the season.

October 10 has been set aside as a special National Grange Day, when a like linvitation is extended to their farmer friends all over the country, and the result is expected to be unprecedented in but it is losing in value the longer it is expected to the attendance of farmers and those incommical to house the fodder as soon The Missouri State Fair, which will be held at Sedalia, September 9-13, will be greatly benefited by the more favorable weather now prevailing, and a large at tendance is expected. We again urge upon RURAL WORLD readers throughout the state to do their utmost for the success of the Fair. In the two week

temporal for farming. Knowing what feet with each corn fodder that will be secured, to make an abundance of winter forage. The stock of courage, too, has been larged by augmented among our farmers, and this is worth millions. Let us not permit the supply of this commodity to diminish, the supply of this commodity to diminish. President D. R. Francisc of the Louisian and the will be said and the will be said and the will be said stated on the permit of the state of the permit of the said and the will likely teach other the power of the magitarity of this nation, lives in an unpretentions of this nation, lives in an unpretentions of this nation, lives in an unpretentions of the power of the power of the subjects should be will not power of the power of the magitarity of this nation, lives of the subjects should not discuss as a power of the Ing now what I felt yesterday—that is, may great admiration for a man who discloss asses could be made of stock and spring from the call accept of the capture of this nation, lives in a numpretention, lives in an unpretention way in a small cottage in a small interior town, wholly without guards, driven the subject should not discovered by the country, stopping to talk to farmers and living as simply as a private citizen."

This related with urine, it was a private citizen."

There is a 30-acre field half a mile from yellow over, phonosch has active and for cather a slow grower, phonosch has active and for cather as the words of the call accept of the wall take care of what is in display the will take a care of what is in display the words of the call accept of the words way in a small cottage in a small interior town, wholly without guards, driving was a private citizen."

This field would have coult at least to farmer a slow grower, phonosch has left in the call, a copy of spin the wall take care of what is in display the words way in a small cottage in a small interior town, wholly without guards, driving was simply as a private citizen."

This related with urine, but has been readed on courage those who have been reared on courage those who have counted that the set is used to salt the state of Louisian and the potential courage those who have counted the potential to more thanks the set supports the country stopping to talk to farmer as an alfalfa proved a failure—probably on a count

ago, we had no trouble, but the yield did not average over seven or eight bushels per acre. We do not care to drift in that direction to cure the evil.

Webster Co., Mo. ED. HOSMER.

our dry spell of weather, while it has been the could have got in June. I have very hard on everybody, and more especially the farmer, we hope that its effects will not be altogether on the side of loss. We have not seen a chinch bug since the middle of June, and the few apples and peaches we have examined are free of worms, and we hope the plum curculio and canker worm have had such a setback that it will take them a long time to recover. A great many better than foresight. If I had put in noxious weeds have falled to make seed, which, with the opportunity afforded the would be ready to take in some of those

ing to give away pigs of 30 to 50 pounds, and one man offered to throw in an old sow or two. A neighbor came along this afternoon and spoke of the 1854 drouth which S. R. M. of Bates county, Mo.,

SEEING AND DOING THE BEST.

Editor RURAL WORLD: It is an ill wind that blows nobody good. So with bur dry spell of weather, while it has been that, and finally sold them for less money than he could have got in June. I have

which, with the opportunity afforded the farmer to kill them, will make our fields cleaner and more productive. These, with other benefits derive from the drouth, will help to call our attention from the needs the enrichment the cowpeas would be the company to take in some of those pigs which are given away or sold at a low price. "What fools we mortais be!" We had land lying vacant and and which will help to call our attention from the needs the enrichment the cowpeas would will help to call our attention from the losses which are fearful to contemplate. Our individual loss runs well up in the have given it; that land is covered to-day with a scant growth of weeds and wild hundreds of dollars. The one item of grass seed sown last spring alone exceeds \$100, to say nothing of the loss of the use of the ground another year, while the losses from the failure of other crops and the possible destruction of meadows already well set, make an array of figures on the wrong side of the ledger, that is discouraging, to say the least. However, got three bushels of pods from I or was 265. with prairie hay or straw, it will be found to be excellent stock food, and particularly if the corn has a good sprinking of nublins. It should be cut while the stalks and leaves are yet green.

We will give in an early issue some information on how to build cheap slice.

We hope the drouth of 1991 is a thing clouds denote more rain, and we hope the drouth of 1991 is a thing of contribution one.

HOW TO SEED ALFALFA.

Editor RURAL WORLD: In your paper of August 7, Mr. R. T. Rhoads wishes to know how to grow affaifs, and the losses and disappointment with about the middle of hard best suited to it. The best land is sandy loam with dry surface.

Plow the land deep in October or November. Leave it in that condition unit about the middle of April, then plow with a sirc there were planted the following a sirring low, not deep. Harrow unit the soil is mellow and there are no clods. Sow the seed broadcast, using about 15 pounds per acre. Then harrow again and roil with a roiler until the surface is smooth and there are no clods. A bout June 15 see whether weeds of grass are coming up. Run over it with a surface is smooth and turn of the conting the properties of the contract of the corn has a grass are coming up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is smooth and there are conting up. Run over it with a surface is surface in the propose of the surface is smooth and there are conting up. Run over it with a surface is surface in the propose in the corn is a surface in the propose in the surface is surface in the propose in the propose discouraging, to say the least. However, got three bushels of pods from 10 rows 265

week; and while it did not grow so luxpartnagements for which have not as year
arrangements for which have not as year
arrangements for which have not as year
arrangements for which have not as year
then fully completed.

It is very gratifying to be able to state
that the general corp conditions made by Mr. Ed. Hosmer as to the most economical use of the mover in this sum way.

The calculations made by Mr. Ed. Hosmer as to the most economical use of the mover in this sum way.

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The calculations made by Mr. Ed. Hosmer as to the most economical use of the simple way in the form of the week in the soll was good nose bringing
the following the completed.

The calculations made by Mr. Ed. Hosmer as to the most economical use of the complete of the comple

distributed, and much aid will be secured.

An Indian Territory correspondent wants to know if we would advise him to build a silo in which to save corn fodder for 25 to 56 head of stock.

Some of your readers may be able to While we think highly of ensliage as stock food, and that a silo as a means cere on in a received wheat from lodging saving forage crop is an excellent thing.

early. Let me suggest that our readers try spring barley sown about the time mentioned above. The spring barley that the time mentioned above. The spring barley that the case and stands frosts much better to acts, and stands frosts much better than the oats. Rye must be depended on for spring pasture by many people the coming year; we would not sow it too early for this purpose; if it is not pastured during winter and has fair snow protection, it will soon afford pasture after the first warm days come.

We are blessed with water and out range and stock is looking fairly well, but it is cheap on account of the shortage of corn and oats.

first warm days come. CULTIVATION.—Note what S. R. M. weather," and may not the same be true of theories and systems?

selling at \$8 loose in stack. Corn is 75c; also were wheat, oats and rye. There will wheat, 70c; oats, 40c; rye, 70c, and an of-fer of 70c for barley; potatoes, \$1.50; injured it. Sorghum and millet suffered peaches, 50c to 75c; apples 30c to 50c; eggs, 10c; butter, 12c; lard, 9c; chickens, young 12, old 7c; hogs \$5.50 per cwt.

C. D. LYON. Southern Ohio.

know nothing about a silo in this country. We are badly hurt by the drouth here in the territory, but nothing to compare with the greater portion of Missouri and Arcorn and oats.

A TENNESSEE LETTER.

Ind. Ter.

Editor RURAL WORLD: The severe of theories and systems?

The largest stalk of sorghum and of corn I have seen this year, and they are bright, fresh and green despite the burning sun, grow in ground which has not fields of early corn will amount to noth-Ing sun, grow in ground which has not fields of early corn will amount to nothbeen broken for 12 years, and right in an old cattle path.

August 15.—We were cheered by an inch of rain last night and to-day, and it still lack potatoes are poor. Garden truck is looks showery. Rain was too late to do corn much good, but it will make some tobacco for us. Although this drouth only stated 45 days, it caused more loss than any previous one on record.

HAY.—Say to the gentleman who wrote me concerning hay that No. 1 timothy is selling at \$8 loose in stack. Corn is 75c; also were wheat, oats and rye. There will

itor at our house, and is read by young and old alike. I have often wondered how so many families could live with-out the good influence that comes from

The Dairy

MISSOURI OLEO CASES.

At a meeting of the executive committee of the Missouri State Board of Agri-culture held in St. Louis, Aug. 7, R. L. Wright, one of the oleo inspectors of St. is, made a report of the work done in St. Louis, by which it was shown that the nine cases that were pending in the courts of this city were continued until

Mr. Wright offered his resignation as

A GRAND GUERNSEY GATHERING.

At the Pan-American, Sept. 18, 1901.

Sept. 18, 1901.

The Guernseys will be judged on the morning of that day. Both Breeders' Associations are arranging special excursions for their members, and it is hoped this will be the grandest Guernsey arrangement to put up a silo near the Morth Converse, Superintendent of Live Stock and Dairy Products, has now made arrangement to put up a silo near the Morth Converse. gathering ever held.

Wm. B. Harvey, Secretary G. B. A.,

Charles L. Hill, Secretary W. G. B. A.,

THE DAIRY TEST.

At the Pan-American Exposition.

Editor RURAL WORLD: In the prolonged record of the cows at the Pan-

ing nothing for any qualities except milk; others want milk that is rich in butter, while still a few others want milking qualities that will produce a large amount of casein, as they value the cow according to the amount of cheese that she will produce. Successful farmers well produce. Successful farmers wethink best to leave the cow and calf study conditions, markets, and make their together at night, only after the first few

she will produce. Successful farmers study conditions, markets, and make their arrangements accordingly. A cow is regarded as a machine that is designated for a special purpose, and is treated accordingly.

It is the desire of Mr. Converse to present the different sides of this question in an unbiased, all-round, thoroughly substantial manner and to let the farmers of the United States and Canada know the results. It is impossible in a printed report to include all the different details that are essential to a thorough understanding of a question that has so did not the total of the calf of the

HERBERT SHEARER, Bazaar Building, Pan-American Exposiuffalo, N. Y., Aug. 10, 1901.

THE DROUTH AND DAIRYING

In Southwest Missouri.

Editor RURAL WORLD: How will the drouth affect us financially? Our dairy herd was on winter feed by the middle of June. It looked like 9½ months of feeding for veal it should go to the butcher wheat was put in the barn to be fed in the sheaf to take the place of a short crop of hay. We will raise little or no corn. Drouth will damage us about as

are paying \$1 per hundred and have to reverse is generally the rule

making it good fodder. Our pastures be- surely to the money invested than the gin to look green. This will make our fod- source of our great cheese industry-the goes against the grain to work a year just calf when taken from its dam for grub.

FEEDING SKIM MILK.-Would it not SOME OLEOMARGARINE MANUbe a good plan to drop hogs the coming FACTURERS are apparently no more year? We have some over 1,600 pounds of shim milk per day. In 1,600 pounds of ment than they are the general public. year? We have some over 1,600 pounds of skim milk per day. In 1,600 pounds of skim milk there are 48 pounds of protein.

We buy bran to get protein. In 403 select the \$15,000 plant and its contents of the union Produce Company located at of protein. Bran is \$1 per 100 pounds. By feeding our skim milk to our cows we should save in bran 34 per day and in corn the feedure part between per laws had been violated, the feedure per beyond the province between per laws had been violated, the feedure per beyond the province between per laws had been violated.

to balance up skim milk fed to hogs not less than \$2. Is it possible to make \$6 per day by feeding three bushels of corn and 1,60 pounds of skim milk to hogs? Corn in this country is higher than is wheat, the price of the latter being about three cents over St. Louis' price. Wilcox feeds his skim milk to his cows. His herd has a record of over 400 pounds of butter per cow per year. Webster Co., Mo.

THE MODEL DAIRY.

At the Pan-American Exposition.

Editor RURAL WORLD: The ideal September weather that prevailed during Mr. Wright offered his resignation as inspector, and it was accepted.

Five new cases have been filed under the law as amended by the last legislature, by Inspector John Wilkinson, and are set for trial early in September.

The oleo inspector for Kansas. City, Frank Yeoman, reported that there were now but If oleo licenses in force, against 47 when he took charge of the work in that city. Eight cases have been filed in Kansas City, one in the Federal court for a violation of the Federal law. comfortable.

We are about to begin feeding green corn, and it is with great reluctance that we do so; in this case it is because the silage is gone. Dairy men who have silos The American Guernsey Cattle Club, will understand the situation; those withthe Guernsey Breeders' Association of Philadelphia and the Western Guernsey too soon. For the benefit of the latter I Breeders' Association will have a union meeting at the Pan-American Exposition to be had at anywhere near the cost of

rathering ever held.

Particulars can be had of Wm. H. Caldvell, Secretary A. G. C. C., Peterboro,
N. H.

Model Dairy, for use during the remainder of the season.

J. FRED SCHLAPPI,
Supt. of Feeds, Pan-American Exposi-Buffalo, N. Y.

HOW TO RAISE THE CALF.

From the Standpoint of the Cheese Factory Patron.

(Paper by L. S. McClellan at Ohio Dairymen's Meeting.) The cheese factory patron expects to longed record of the cows at the PanAmerican Model Dairy many contingencies arise that tend to modify the figures
in this report; some cows are fresh, while
others are not; some are not acclimated
and some have suffered from the extreme heat of June and July to an unusual degree. It will be noticed that the
amount of feed consumed varies considerably, this is due in great measure to the
difference in weight of the different animails, as some of the cows are under 700
pounds, while others are large enough to
furnish meterial for a barbecue. Instances are noticeable wherein one cow consumes more feed and gives more milk where it will become accustomet to its future surroundings and learn to shelled corn and oats mixed, pound for

tails that are essential to a thorough understanding of a question that has so many sides; enough, however, is given to interest the general public, proof of which is made manifest every day by the crowds who throng the model dairy and the great numbers who are continually tasking questions concerning the favorites whose acquaintance they have made through these reports and the editorial comments thereon that they have read in the papers. takes the place of milk altogether. Clean salt and fresh water, which are generally omitted, will be found beneficial. When pasture is abundant the grain may be omitted until the approach of cold weather, when it should be fed twice a day. The average calf learns to eat grain at about two weeks of age, and it may not be wrong to consider that whenever not increasing in weight that it is fed at

The idea that when a calf is fat enoug

from calves which have been stunted

We are sorry to say that we have witE2,200

Last year at this time we got our bran
delivered at 60 cents per hundred; now we
still developed to be good cows, but the

Timely rains greened up our early corn,

der last twice as long. The rain that put life into our corn crop made the fodder this year of more value than the fodder not agree with Mr. McClellan in the and 90 bushels of corn per acre were last. statement that it is best for both the Had the later rains missed us as it has dairy cow and the dairy calf, that the the eastern part of our country, our damage would have been about \$1,200 greater.

Thanks to our dairy, even this year, we life. On the contrary, they believe that it will live and make a good interest on the injures the usefulness of the cow, and is \$16,006 invested in our business; still it likely to retard the development of the

should save in bran #4 per day and in corn
the factory not having been registered,
nor any revenue tax paid on the oleomargarine manufactured. But it is, under Hood Farm Milk Fever Cure (Improved Schmidt Treatment) saves the lives of the most valuable cows.

FOND Can be applied after the cow is unconscious. Three treatments, \$2.50. Sent to any railroad express point in the United States, \$2.75.

C. I. HOOD & CO.,

Mention this paper.

Hood Farm Milk Fever Cure (Improved Schmidt Treatment) saves the lives of the most valuable cows.

East it is, under present conditions, much easier to sell dole for and as butter thereby defrauding the consumer, than it is to defraud Uncle Sam. The Government can and does successfully cope with this kind of law violations, but the consumer will, in many railroad express point in the United States, \$2.75.

C. I. HOOD & CO.,

Mention this paper.

Lowell, Mass.

Hood Farm Milk Fever Cure (Improved Schmidt Treatment) saves the lives of the most valuable cows.

E. L. BUCKWALTER left Friday for a month's visit to his old home in Lancaster, Pa. He can tell his friends there that he has 3,000 bushels of 69-pound wheat in his granary; that he has tacks and some hay, and that while he is going to be worfully short on corn that he will have fine fodder and that he has raised plenty of feed der and that he has raised plenty of feed rion Co. (Mo.) Herald.

THE WEEK'S WORK IN THE MODEL DAIRY.

AT THE PAN-AMERICAN EXPOSITION FOR THE WEEK ENDING AUG. 6

		1	1901.						
	8	BHOR	THOR	NS.					
	>	7	>	-1		Cost	of Fee	d.	
	mount of	4	8	Per	Hay	Sila	Grain F	T	
	ğ	Cent	8	2.5	Ę	E	10	\$	
Name of Cow.	*		-	Po	3	9	=		
Name of Cow.	2	2	2	Pound.	Fed.	Fed	Fed.		
	MIIK	Pat	But	P 12		-	-		
	7	F	tter						
14th Princess of Thule 2	10.3	3,85	9.52	\$2.38	.22	.23	.76	1.21	81
Daisy D 2	20.0	3.55	9.18	2.30	.22	.21	.76	1.19	1
Miss Molly 2	55.0	3.5	10.50	2.63	.22		.76	1.21	1
Queen Bess	31.0	3.9	10.59	2.65		.23		1.23	1
Rose Third 2	44.3	3.2	9.19	2.30		.23	.76	1.21	1
Total 1,10	60.6		48.98 STEIR	\$12.26	1.12	1.13	3.80	6.05	\$6
Meg 2	95.4		11.46		.29	.17	.79	1.25	81
			40 50	A 400	- 00		.79	1.25	1.
Inka Warredes 2	91.5	3.	10.28	2.57	.29	.17		1.24	1
Hulda Wayne Aggle2	92.4	3.2	11.00	2.75	.29	.17	.79	1.25	1.
Tidy Abberkirk	04.0	3,45	12.33	3.08	.29	.16	.79	1.24	1
Total1,4	58.5		55.59 SHIRI	\$13.90	1.45	.84	3.94	6.23	\$7.
Kirsty Wallace 2	43.5	3.7	10.59	\$2.68	.28	.11	.56	.90	81.
Lady Flora 2	21.7	3.4	8.86	2.22	.24	.01	.56	.81	1.
Alles Second 9	16.8	4.05	10.52	2.58	.93	.11	.56	.90	. 1.
Alice Second Z	56.0	3.65	10.99	2.75	.22	.11	.56	.90	1
Betsy 28	43.9	3.8	10.90	2.78	.23	.11	.56	.90	- 1.
Total 1.1	81.9		51.86	\$12.96	1.16	.45	2.80	4.41	\$8.
Cirsy 2 Primrose Paiks 1	11 0	JEF	11 22	99 59	99	04	.71	.98	\$1
Cirsy	24.0	5.0	12.63	3.91	. 99	.04	-61	.88	2.
Queen May 2 Rexina 2	15.5	4.1	10.39	2.60	.23	.06	.50	.79	1.
Rexina 2 Mossy 2	16.6	4.4	11.21	3.80	.20	.01	.01	.01	1.
Total	1.06		01.40	47.8 00	1.15	.27	2.95	4.37	. \$9
		GUEF			00	19	45	91	31.
Vegia 11	88.6	4.60	10.31	\$2.58	.23	.13	-40	.01	
Cassiopia 2	23.3	4.4	11.00	2.89	.22	.10	.01	.00	0
Mary Marshall 15	96.8	4.9	0.00	9.49	95	19	45	89	1
Medora Fern	15.7	4.4	11.66	2.79	.23	.13	.65	1.01	1
		-		\$13.89	_		-	4.61	39
Total 98	B	ROWN	N SWI	ISS.					
Lucy 2	22.5	3.4	8.90	\$2.23	.26	.18		1.08	
Nicola 2	20.2	3.2	8.28	2.07	.26	.18	.47		1
Eliza 2	10.0	3.7	10.70	2.68	.26			1.08	
Belle T 2	29.8	4.	10.81	2.70	.26			1.01	
Hope of Minnesota 2	41.6		10.23	2.56	.27	.10	.58	.95	1
Total1,1	60.1		48.92	\$12.24	1.31	.82	2.90	5.03	\$7
Tryste 1				\$2.09	.24	.13	.55	.92	\$1
Easter 2	13.5	3.65	9.16	2.29	.25	.13	.59	.97	1
May Flower 2	22.7	4.15	10.87	2.72	. 23	.11	.65	.99	1
Susie 2	71.6	3.65	11.66	2.92	.25	.14	.60	.99	1
Flora 1	81.4	4.4	9.39	2.35	.24	.12	.57	98	1
Total1,0	84.2			\$12.37	1.21	.63	2.96	4.80	87
				SEYS.			40	60	\$1
Phyllis 1	57.8	4.2	9.37	\$1.95	.22	.12	.49	.83	
Prides Favorites 1	79.1			2.34	.22	.12	.48	.82	1
Queen 1	94.9	4.97	11.11	2.78	.22	.12	.11	.45	1
Instina	39.2	4.30	5.07	1.27	1 444	.12	.11	.40	

.13 .13 .13 .19 178.4 8.18 2.05 3.8 6.51 145.8 1.63

987.0

..... 809.5

THE TOTALS OF EACH HERD From the Commencement of the Test May 1 Up to and Including the Week Ending Aug. 6, 1901.

4.3

.... 44.39 \$11.10 1.11

40.76 \$10.20

.85

.71

5.37

9.04

FRENCH-CANADIAN.

927.4 44.63 \$11.17

.12

.80 2.95

.67 2.15

1.01 1.01

1.75

1.28

Name of Herd.	Amt. of Butter	Value at 25c Per Lb	Value Hay Fed	Value Silage Fed.	Value Grain Fed	Total Cost Feed	Profit
Guernsey16578.6	862.10	215.50	18.27	11.77	46.65	76.98	138.5
Ayrshire 19976.7	838.95	209.80	15.53	13.38	48.66	77.57	132.2
Jersey 16081.1	826.90	206.75	13.82	13.11	48.21	75.14	131.6
Holstein22715.7	832,25	208.04	15.36	15.61	54.69	85.46	122.5
Red Polls17554.7	792.82	198.20	15.17	12.99	49.51	77.79	120.4
Brown Swiss18886.1	777.48	194.37	21.82	11.99	50.66	84.47	109.3
Shorthorn 19159.8	760.21	210.09	16.04	15.16	56.47	88.70	101.3
Polled Jerseys12280.7	647.19	161.75	17.83	9.34	83.47	60.54	101.2
French Canadian15137.5	669.89	167.58	12.77	13.33	40.06	66.16	100.7
Dutch Belted14179.9	548.84	127.36	15.12	11.36	45.76	72.21	65.1

HOME BUTTER TESTS OF GUERNSEY COWS

The results of the year's Home Butter Tests of Guernsey cows, which recently

Mr. E. T. Gill's Glenwood Girl 6th 9113, 667.5 lbs, butter.

Messrs. Geo. C. Hill & Son's Primrose Tricksey 7226, 592.6 lbs. butter. Messrs. Geo. C. Hill & Son's Gypsy of Racine 9639, 504.9 lbs. butter.

In herds, we have Mr. E. T. Gill's					
Glenwood Girl 6th 911812,184.5	ll lbs.	milk,	667.5	lbs.	butt
Lucretia's Daughter 1125611,084.6	3 lbs.	milk,	571.2	lbs.	butt
Lucretia of Haddon 10831 9,710.3	25 lbs.	milk,	545.5	lbs.	butt
Glenwood Girl 8th 1083011,310.1					
Glenwood Girl 7th 9114 9,178.5	34 lbs.	milk,	451.6	lbs.	butt
Average of the five			554.94	lbs.	butt
Primrose's Tricksey 7236 9,277.	lbs.	milk,	592.6	lbs.	butt
Gypsy of Racine 9639					
Lady Bishop 6518 7,272.					
Lady Benjamin 9895					
Neuron 6569 7.059					

Average of the five... In the first competition, we find912.5 lbs. butter

butter, or averaging 689.03 lbs. also note that two of Messrs. Hill's cows have participated in both competi Nounon for 1899 5.338.0 lbs. milk, 410.3 lbs. butter . 7.059.5 lbs. milk, 446.6 lbs. butter

agricultural experiment station.

DON'T KNOW WHAT IT IS TO BE CLEAN

Extract From an Address by Mrs. Addie Now in this business of dairying, many

ople do not know what it is to be clean. I went into a dairy not long ago where the people are very well to do; they have made their money by dairy farming and the man complained that the prices of butter were not what they once were. I went into the house and doing so passe through the kitchen. I am not in the habit of criticising people who have been kind and generous to me, but I am giv-ing you this example; the table in that kitchen was full of dirty dishes. In one corner stood a separator, I think it was a tank that you pour water into and sep-arate your cream that way. It was dur-ing fly time and there were no screens and the flies were thick because there was

corn and cabbage cooking there.

At the foot of the table was a lot of unwashed milk palls and a lot of fithy straining cloths, so filthy that only boiling in concentrated lye would clean them. Right opposite stood the butter worker. On this was piled a lot of dirty dishes and a kettle. Do you wonder that farmer complained that times were not as they were? Who is going to buy but-

as they were: Who is going to buy but-ter after those methods.

Now that was a large house and I know they did not use it all. I would have taken my parlor for a milk room.

We must fight against odors and dirt. If you had asked those people, "Are you clean?" "Why, yes we are clean peo-ple." Our standard of cleanliness is de-fective.

PASTEURIZING METHODS

And the Care of Milk in the Home.

The New Jersey Agricultural Experiment Station has issued a builetin (No. 152) on Domestic Pasteurizing Methods and the Care of Milk in the Home, the summary of which we present as follows: 1. The "spoiling" or "turning sour" of milk, so apt to occur in warm weather, is due to germs, which find in milk a most favorable breeding place, when the temperature rises above 60 degrees F.; the best temperatures for germ growth lie be-tween 70 degrees and 90 degrees F. 2. It requires the activity of an exceed-ingly great number of germs to change

milk to an appreciable extent. Though very many germs are introduced into milk during its production and preparation for market, they could not spoil milk if they did not multiply in geometric interest Such milk can be prepared either tures.

of time beyond a few hours, that it should be speedily cooled as low as poss-ble, and kept cold as continuously as pos-sible. It ought, in fact, never to become warmer than 50 degrees F., until it is

4. Otherwise, an appreciable portion of its constituents will become chemically decomposed, and so may produce disease, or at least distress in sensitive stomachs, particularly of infants, even though no

5. The germs of such diseases as typhoid and scarlet fevers, and especially of tuberculosis (consumption), are some-times present in milk, and while at low temperatures they do not alter the milk, yet, when introduced into susceptible systems, they multiply in geometric ratio

grees, it acquires a "cooked" taste and is ess easily digested; but these changes are gradual, and depend for the extent to

DON'T jeopardize your insurance by burning off old, cracked and peeling paint.

Avoid the necessity for the dangerous paint burner by using only pure "old Dutch process" White Lead, the only paint which never cracks nor peels and can always be renewed without burning off. These brands are genuine.

By using National Lead Co.'s Pure White Lead Tinting Colors, desired shade is readily obtained. Pamphlet giving valuable rmation and card showing samples of colors mailed FREE to

TELE HO NATIONAL LEAD CO., Clark Avenue and Tenth Street, St. Louis, Mo.



comes cool again, unless it be at once made very cold, the spores germinate or "hatch" into active germs, that begin the work of fermentation again, and then

they soon produce spores again.

12. If the pasteurization be repeated at the right moment, after all the spores have germinated, but before new spores are formed, the second pasteurization will succeed in "practically" sterilizing the milk, though at no time has it been heat-ed hot enough to produce the cocked taste. This is called the method of ster-

lising by repeated pasteurization (or "discontinuous heating").

13. "Sterilized" milk, scientifically speaking, is that in which all germs have been destroyed by heat. (For if a single one be left, it will soon become a host by multiplication.) If such milk be properly inite period, even at summer temperaratio. That is, the longer the germs are in the milk the greater is their total increase.

3. Coupling this factor with that of temperature, we see that it is necessary, whenever milk is to be kept for a length is applied to milk which has been tures. Such milk can be prepared either by steaming the milk under pressure, at temperatures higher than the boiling point, or by pasteurization, repeated once on each of five or six consecutive days.

14. Generally speaking, the term "ster-lized" is applied to milk which has been tures. Such milk can be prepared either ilized" is applied to milk which has been more thoroughly heated, and, therefore, has a smaller germ content, and will keep longer than with simple pasteurization. It is in this relative sense that we shall use the term. Such milk as prepared by one heating has more or less of the cooked taste.

cooked taste.

15. To preserve milk successfully it is necessary to properly apply both heat and cold; but proper heating is more important than proper refrigeration, because by the means the use of fee may be entirely. its means the use of ice may be entirely dispensed with, if the consumer so prefers.

16. To keep milk sweet for a long time, in the absence of ice, it should be relatively pure to start with, and must be in the absence of ice, it should be relatively pure to start with, and must be pasteurized or sterilized as soon as received, and this heating should be repeated at intervals of six to twelve hours. pasteurized or sterilized as soon as received, and this heating should be received, and this heating should be received at intervals of six to twelve hours, according to the temperature of the air, the sooner should the "sealding" of the milk cold. Hence to guard against them it becomes necessary to destroy them by heating the milk to the proper temperature.

7. All disease germs, and most of the germs of milk, are destroyed by being subjected to a temperature of 140 degrees F., or above, for periods varying from ten

germs of milk, are destroyed by being subjected to a temperature of 140 degrees F., or above, for periods varying from ten minutes to nearly an hour. The higher the temperature the shorter the time needed. The germ of tuberculosis has been found to be the most difficult to kill (in milk), but it is destroyed if milk be heated momentarily to 185 degrees, or be held at 185 degrees for about twenty minutes.

It is the always the fermentation of the contents, By having a separate bottle for each feeding, the baby's food-supply for an entire day can be pasteurized at once. It is then always ready, being each bottle, as wanted, into hot water a short time, to give the contents the right degree of warmth for feeding. But quite as good results can be secured shall be as fresh and sweet as possible. The practice of pasteurizing at home 8. But it is necessary to stir the milk constantly during the heating, to be sure that this dreaded germ is killed at these temperatures.

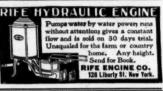
9. When milk is heated above 158 degrees, it acquires a "conked" texts and is consumer (if no ice he at hand) accounts. The practice of pasteurizing at

are gradual, and depend for the extent to which they occur, on the length of time the milk remains above this temperature. If milk be rapidly heated to 185 degrees and then be rapidly cooled to below 185 degrees, the "cooked" flavor is slight and gradually disappears.

10. "Pasteurized milk" is that which has been heated hot enough to kill any disease germs that may be present, but not hot enough to give it a permanently cooked flavor. Incidentally most of the other germs, which are so abundant in milk, are also killed by pasteurizing, and therefore such milk will keep sweet much longer than if it had not been thus heatlonger than if it had not been thus heated. If not cooled below so degrees relating the leafter legs and while they are few is the time to suppasteurising temperatures (they even withstand bolling) are in the dormant condition of "spores." After the milk be
sted. If not cooled below so degrees relating and while they are few is the time to suppasteurising temperature at the desired point for the proper time is more trouble than with the above method.

Solution of "spores." After the milk be-





19. Milk may also be pasteurized or sterilized in bottles or tin cans, of tall and nacrow form, holding from a half to a whole pint each. They are placed either into a steamer and subjected to the acutes, or are put into a boiler on a false bottom or perforated platform, so as not to come into direct contact with the bottom of the boiler. Sufficient water poured in to surround the bottles to same level as the milk. The water is heated to boiling and the bottles are then

by using only one nursing teurizing the food, as in 18.

HOLSTEINS ON HAND .- Ten of the dairy should supply pasteurized or ster-ilized milk, it may be necessary for the consumer (if no ice be at hand), especial-ly in warm weather, to repeat the pas-teurisation, in order to preserve the good character of the milk. est Holstein cows in America arrived



PREPARED BY MCCORMICK MACHINES When properly cured and shredded, corn fodder is better than hay. Oming to the partial failure

of the hay crop and the injury corn sustained by reason of the drouth, it will be necessary for farmers to save all of their corn crop, the fodder and stalks as well as the ears. To do this effectively machines will be required. The MSCORMICK Corn Binder and MSCORMICK Husker and Shredder are the best machines for handling corn. They enable the farmer to double the

WRITE FOR BEAUTIFULLY ILLUSTRATED BOOK KING CORN MAILED ENTITLED

HORTICULTURAL TALKS.

BURBANK PLUMS .- This morning. Aug. 7, I had intended to gather these some. I told him 10 cents per

To have the Gold and the Lancing plum a tree grafted on alternate limbs

when in fruit.

QUACKENBOSS.—This is a splendid large plum, and is nearly ripe. It is of the Lombard class, but less liable to rot than that variety. I don't remember here I got this plum, but I have faith in it. The trees are strong growers, bear well, but subject to the attack of the curculio, as are nearly all the rest. The Golden Beauty is the only one I have that is proof against its attacks. My trees are so full that if not thinned out the plums will be small. It comes when all other plums except the damson are

SEEDLING PLUMS .- A few days ago I received a box of seedling plums from Hugo Lancing, near Rhineland, Mo. These plums bid fair to take a place on our list of plums. Mr. Lancing writes that about one-half of them were picked a week ago, the rest just picked. I could perceive no difference in them except some a little riper than others. This shows that this one will be a good keeper and shipper. This plum is 1 1-6 inches in diameter, as round as a marble, a dark glossy red, has a thin but firm skin and a sweet, well-flavored juice. The seed is se and small, with not a particle of astringency about the skin or so objectionable in the wild goose. This plum should be in the hands of some nurseryman to propa-

RETROGRADING .- Years ago I distive. I raised half a dozen trees to bearing age, not one of which is worth having, and they have been grafted with

ANOTHER NEW GRAPE.-This is a red one from Joseph Bachmann of Altus, Ark. The bunch and berry are medium in size, the latter is red and of ex-

TARINES .- I made mention in a recent issue of a man who used ashes in the ground under a nectarine tree. The fruit which has always rotted heretofore is now clean. I walked two miles and as-cended a bluff 500 feet to see this tree. It is, perhaps, 20 years old, and is loaded with fruit. Some of the plums are punctured by the gougers, but I find no worms

few days ago I saw in a pasture field beside my grounds a seedling peach tree, under which there were standing three goats on their hind legs reaching up to get the peaches, which they munched At another time I saw them reach up with their fore legs and pull down limbs so as to reach the fruit. Last spring a year ago, I planted a row of choice peach trees within two feet of a barbed wire fence-the line between my land and that of my son. The goats have reached through and ruined all of them. I write this so others may know how these animals can forage. I have seen them with the two fore

hoofs (or claws I must almost call them) they don't attack, as far as I have seen, is the persimmon. A few valuable grafts of some new varieties which are near the fence. I expected to have ruined, are still safe, while a lot of seedlings in the pasture are unmolested.

Before the winter sets in it may be that we can give some new items on the persimmon, a valuable fruit that has been so long neglected. One of the new ones has leaves nearly a foot long and five inches broad, a tree worth growing as an ornament, even if it did not bear

the RURAL WORLD. SAMUEL MILLER.

"PERHAPS APPLE CANKER."

Propagating.

were raised on the place and were pro-Now, kind readers, can you point out them in my fall search. I hope next year trees that have been set out in the last 20 years that promise such longevity? I from the use of this paint.

A THREE-MONTHS' DROUTH, commencing just as all vegetation is and I expect this article to call forth congathering energies for a vigorous growth, temperate in the present the configuration.

and I expect this article to call forth condemation in no unmistakable language. Is as unusual as it is serious, and for the damateur fruit grower who has given time, labor and money in efforts to ascertain the relative value of different fruits, it is as one disappointment.

About the center of my orchard, on an and for the market, can bear their great building, thinking some day I would have

The Wild Goose is the king of plums here. The trees ripened good crops and sold for \$2 per bushel, while the Abundsance, Burbank and Damson are all wilting and falling off the trees. Whether this is caused by the continued dry weather, insects or what not, the Goose is the king of plums here. The trees ripened good crops and sold for \$2 per bushel, while the Abundsance, Burbank and Damson are all wilting and falling off the trees. Whether this is caused by the continued dry weather, insects or what not, the Goose is the king of plums here. The trees ripened good crops and sold for \$2 per bushel, while the Abundsance, Burbank and Damson are all wilting and falling off the trees. Whether the same there there is serious, and for the same time, labor and money in efforts to ascertain the relative value of different fruits, it is a sore disappointment.

About the center of my orchard, on an elevation, I had reserved a space for a building, thinking some day I would have

Horticulture losses with such patience as they seem to do. One in a great number of orchards will be only a partial success; that one is then advertised and pointed out by the fruit tree vender with all of the eloquence and false representation ear on his intended purchaser and d Farmers and orchardists, if you

plums and ship them. There is only one to have trees that will be as sturdy, pro-ductive and as long lived as a forest tree, plant your seeds where you wish who was passing asked me what I would the trees to grow; get an expert to but the trees to grow; get an expert to but the property of them. quart. He said he would take all I could cultivation and attention and you will spare of them. This made shipping unobtain by any other method known to Marion Co., Mo.

IN TIME OF DROUHT.

Apple Crop Saved By "Dust Mulch."

Editor RURAL WORLD: It is now too late for this experience to be of value to any one this year, but it is a good time to impress the lesson upon the minds of those whose fruit is falling prematurely on account of the drouth.

For several years our experiment sta-tions have advocated frequent and shal-low cultivation for conserving moisture, but this is the first year I have given it a thorough test, and the result is so marked and satisfactory I feel it my duty to report it for the future benefit of other horticulturists. Early last spring I had my commercial orchard (consisting principally of Winesaps) thoroughly plowed and harrowed, and as often after that as the weeds or grass started up I had it gone over with either a disc or spike-toothed harrow—say about every ten days or two weeks-until the drouth set in during the early part of June. Since then it has received weekly cultivations which will be continued through-out this month, notwithstanding two fair-ly good rains have recently fallen, for an average rain may do as much harm as good when the ground is dry and hot, unless it is stirred soon after

NOW FOR THE EFFECT.-My are literally loaded with as smooth, pretty fruit as I could ask for, and both trees and fruit are growing vigorously. Owing to thorough sprayings before and after blooming, the foliage is dark green, healthy and abundant, while in another orchard adjoining, not so treated, many of the leaves are already seared, the fruit small and dropping badly. I neg-lected to state that the orchard received one application of commercial fertilizer about the last of June, but to the dust mulch I think is due my present prospect

for a crop of apples.

Massac Co., Ill. R. BYRD LEEPER.

AN AMATEUR'S ANGUISH

Editor RURAL WORLD: The drouth has beaten me and I am going to "light out" till next spring. It is no use to write of the desolation here, we are in the same fix as are other parts of the same fix as ment, as I had so many new-to-me fruits that I was anxious to test this season. I fear it will take years to recover from the disasters of this year of 1901. Josh Billings or some other savant said:

"Don't count your chickens before the eggs are hatched." Never has this maxim been more fully exemplified than with fruit men this year. Never was a spring more promising; visions of many luxuries loomed before my mental vision as I watched my raspberries in their fine spring growth. My year-old Cumber-lands loaded with their bright promises and the Loudons following with even riches promises. My Early Harvest, Eldorado and Rathbun blackberries were barbed wire and reaching up as as they could stretch their necks to erbage. The one kind of tree which the country of the coun were they crowded on the bushes. My two-year-old peach trees were well stocked, and so also were many of the pear and plum trees. Our strawberry fields were simply a wonder with their loads of young fruit. Talk of crates by car loads was common, and it was a quer tion as to whether the United States could furnish a market for the prospec tively enormous crop. But the drouth came with its withering heat that blasts all our hopes. Strawberries wound up with about one-eighth of a crop; raspberries one-fiftieth; blackberries, peaches, except early varieties, dried up When my next article, or what I send had but two light showers. Some pornow, gets to the readers, I may be in those of our county have been visited by heavy rains, but these came too late to do heavy rains, but these came too late to do From April 17 to date (Aug. 1) we hav crops much good. Our oldest inhabitant has been interviewed, and he declared that a residence of 60 years has not wit-nessed the like; yet with it all our apple crop promises wonderfully well under the But Most Likely Improper Method of circumstances; fruit is generally sound,

though under size Editor RURAL WORLD: Under the apple trees dying, especially last spring's richer. Apple Canker," in the planting. I am satisfied that fall is the

RURAL WORLD of July 17 appeared an article which seems to me calls for further comment.

Two years ago I wrote you about starting my young orchard, how I dug large to harvest \$290 worth of fruit they cause of the bark, and finally the tree, dying is nothing more or less than soil, how I was careful to plant all the way the tree was propagated by roots carefully, sifting in surface soil to land that had no vines planted on it. grafting, and perhaps it was on a piece root.

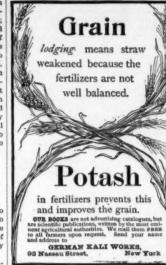
About 30 of our young pear trees set in root.

Mr. Editor, on my father's farm, my home, there are 55 acres in an orchard, and a small nursery that I am attending stringfellow and others who have no use to, and these include seedlings, grafts and budded trees; so I have a splendid a medium. I dug holes just as small as located, having dug holes by the sides of opportunity to study and observe the variety of spade permitted, cut all roots to rious results from the different methods employed in the propagation of the trees, as it came handy, tramped and in some I am perfectly satisfied, and I never in- cases used a rammer, trimmed to a whip, tend to graft another tree.

The propagation of trees should be by as near the natural way as possible; and when we adopt such methods there will cleared two years, let bake in the sun the

fine growth in spite of the drouth. duced by the old stump method of graft- In November last I carefully searched duced by the old stump method of grafting, which is superior to the methods
every tree for borers, found enough in
employed nowadays. Near La Grange,
Mo., there are several trees that must be
so many in apple, pear and plum—and
nearly 50 years old and which are in a
gave all trees a coat of winter paint. In
remarkable state of vigor and thrift considering the limited care and attention
given to them. They were also produced by the stump method of grafting.

In November last I carefully searched
in November last I carefully searched
in very tree for borers, found enough in
gave all trees a coat of winter paint. In
remarkable state of vigor and thrift considering the limited care and attention
given to them. They were also produced by the stump method of grafting. duced by the stump method of grafting. or aphis (had both), though I may find



cottage there, have a porch facing the railroad, on which I would sit evening and watch the trains as they would pass loaded with Busch's beer and othe: good (?) things. On this plat, I planted chestnuts, persimmons, pecans, mulber-ries, Bismarck apples, sweet cherries apricots, grapes, June berries, etc., calculating some time to have ye editor come out, eat fruit and enjoy our delicious breezes; but the drouth has postwithstood the drouth's effects When I read how that old veteran was tolling at that pump 20 feet in the air in the early hours of morn, when most folks are abed, trying to save some choice plants, I fully sympathized with him on his anxiety.

My own disappointment has been keen as I have an assortment that would have fruited this year for the first time, and was naturally anxious, but the big evaporator that cooked my grapes has done brown all my calculations and set me back fully another year. What an amateur doesn't know about fruit raising will be my next.

Crawford Co., Mo.

AMERICAN POMOLOGICAL SOCIETY The RURAL WORLD has already called attention to the coming meeting of the American Pomological society to be held at Buffalo, Sept. 12 and 13, 1901. It should not be missed by any fruit grower

who can possibly attend.

Among those announced to speak are
L. H. Bailey, J. H. Hale, S. D. Willard, L. A. Goodman, H. M. Dunlop, Geo. T. well, Wm. B. Alwood and Judge Fred Wellhouse. The fruit exhibit of the so-clety will be held in the Horticultural building at the Exposition, and all exhibits of the society will be eligible for Exposition awards

officers of the society are: Presi-Philadelphia, Pa.; secretary, William A. Taylor, 55 Q street northeast, Washing ton, D. C.; treasurer, L. R. Taft, Agri-cultural College, Michigan; chairman ex-ecutive committee, Charles W. Garfield, Grand Rapids, Mich.

COLE CO., MO., FRUIT PROSPECT. Editor RURAL WORLD: While I read discouraging reports from nearly every-where about the fruit crop, I am glad to say that for this locality and especially my own crop of apples, peaches and pears the prospect was never better. The Ben Davis, as usual, in apples, takes the lead and is the largest, smoothest and finest that I have ever seen at this time of the year. Peaches are from two to three weeks later than usual. Elbertas are of good size, and the trees are not generally overloaded, but the later varieties were and had to be thinned out.

This has been one season when the Alexander has been quite a good early peach and came to full maturity without otting on the trees. We have just picked the last of them to-day, Aug. 8, almost month later than usual.

Fruit seems to be but little affected by insect pests this season, and not as yet by scab, bitter rot or other fungous diseases. Secretary Goodman, in his report says the fruit on the hills along the Mis-souri river suffered more from the drouth than in other places. While I can not say how other counties fare, Cole county has come through the drouth all right and will have a crop of fine fruit.

L. V. DIX. SOUTHEAST MISSOURI NOTES.

Editor RURAL WORLD: If every tillable acre of St. Francois County, Mo. land was set to fruit it would soon grow

I have two-thirds of an acre set to

the earth about the trees, we hoed the whole surface for two feet around the be different results from those produced by the methods now employed.

On the farm of my father there are apple trees that are over 60 years old; they patch much the same way, only leaving off the mulching of grass. The vines shade the hill pretty well. We also cut bushes and weeds with which to shade the meions and keep them from baking by the hot rays of the afternoon sun When the mercury stood at 167 degree in the shade some of the grapes expose shaded them by parts of the vines that could be brought up and tied over the bunches. The vines of the melons also make the best shade when they can be used, as they do not wilt like a bush or weed that is cut loose from the earth. The Wild Goose is the king of plums here. The trees ripened good crops and sold for \$2 per bushel, while the Abund-

THE GINSENG EXHIBIT

At the Pan-American Exposition

Editor RURAL WORLD: Among the odd vegetable exhibitions in the Horti-culture building we find ginseng, an odd-ity that the mountaineers of Kentucky and Tennessee have been hunting for generations under the name of "Sang." So thoroughly and persistently have these easy-going, lanky American hunters indulged in this exciting sport that they have secured about all the "Sang" that they can find. This is not to be won dered at when we consider that in the wild state it takes from five to eight years to grow a root, that one of these fellows will dig up in about one minute, and that the farther destructive methods of digging up young roots that have not sufficiently matured to bear seed is universally practiced, and that when the seed is matured it requires a year and a half to germinate. Apparently nature has thrown a number of safeguards about over-production of this unsavory

roduct with undue precaution.

Another peculiarity about ginseng is the ack of any mortal use for it so far as we know. Americans so far have never been able to discover any valuable qualities belonging to the plant, though it is worth in the open market \$5 or \$6 per pound. The only sale for it is among the Chinese, and they persistently and positively refuse to tell the truth, the whole truth and nothing but the truth, as to what they do with it; but this probably concerns us very little so long as they are willing to pay the price and increase our foreign exports to the amount of several hundred thousand dollars per an-

Owing to the difficulty of propagating the plant it has only been recently grown artificially, and not now to any great extent, owing to the long wait from the time of planting the seed to the maturity of the root. Young America would rather grow two crops in a year of me other produce than to wait seven or eight years for one crop of ginseng. There rdens, however, at Rose Hill, New York, that are apparently making a success of this long-drawn out proposition as this plant is now bringing them a good deal of money, which illustrates the old "All things come to him who HERBERT SHEARER, Bazaar Bldg., Pan-American Expositio

THE MISSOURI FRUIT CROP.

Hon. N. F. Murray, President State ultural Society, Oregon, Missouri, 'In a good fruit year in Missouri I e

imate the total value of the fruit sold at \$20,000,000. This would not include the alue of the fruit consumed by the growrs. The loss on apples and peaches alone n account of the drouth, I would place at \$4,000,000. This of course does not inde the damage to the trees which has been very great in newly planted orchards. Now that we have had rains followed by cloudy weather I look for our apples and late peaches to be good. Hon. D. A. Robnett, Vice President

uri Horticultural Society, Columbia ne-third of a full crop this time. I cannot tell the loss as what we have this year will bring so much more. Where orchards have been cultivated and sprayed they will bring more than they did last year and the loss is in uncared for orchards. The drouth has caused many to fall where orchards were neg Apples are small on account

Hon. L. A. Goodman, Secretary State Horticultural Society, Kansas City, Misuri, says: apple crop in the most favored

the drouth.

parts will probably reach 50 per cent, but n some districts as low as 10 per cent. Apples seem to be smooth and clear of sects and scab, but they have not cown much on account of the dry weath-. Wherever good rains fall the fruit will come out very fair size. The Ozark region and the Northwest part of the State send in the best reports. I find that a great many apple trees are dying, but how serious the injury may be we cannot now tell. The value of the apple crop will probably be cut considerably more than one-half. The peach orchards are affected very much the same as apples and are very small and in some cases are nearly dried up. Where rain is plentiful ate peaches will in all probability comout in very good size. The prospect is for a good crop of grapes. I consider a good crop of all fruits in the State worth about \$20,000,000. The drouth has injured

cently visited 800 to 1,000 acres of bearing orchard and I find where the trees have been well cultivated and sprayed, the fruit is in extra fine condition. Where orchards are not cultivated, trees not pruned or sprayed the crops are very light and poor in quality. This has dem-onstrated that cultivation and spraying is necessary to produce a crop of No. 1 fruit. Peaches will need thinning. have had to thin all my three-year-old

moisture to make them full size. I would place the condition of apples at 35 to 45

per cent of a full crop,"

Prof. J. C. Whitten, Horticulturist to
the Missouri Experiment Station, Columbia, Missouri, says:

"The value of a good fruit crop for the State would undoubtedly amount to \$20,-000,000. The present condition compared with the average are, apples, where orchards have been cultivated, compare very favorably; in untilled orchards the fruit has certainly been injured to some ex-tent, mostly by dropping off and in non-development. Peaches, conditions are much the same as with apples, but the dry weather has prevented them rotting as badly as usual, the rot being almost unknown at present. Where vineyards have been given good attention and care there will surely be a fair crop of grapes even though we do not get any more rains. Grapes are above the average con-dition now because they have so little rot."—August Bulletin Missouri State Board of Agriculture.

Crops for the Orchard-Nothing should be grown in the orchard which will pre-vent the cultivation of the trees. On steep hillsides, clover is especially desirable to open before him. The following two prevent washing. It should be sown in strips running across the hillside between the rows, and the trees given clean cultivation until they are well established.

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The Apiary

GRADING AND PACKING HONEY.

Every beekeeper should strive to make a reputation as an honorable shipper, and after it has once been made he will not have much trouble in finding a market for his honey. It may be needless to say wagon, and the colonies are wheeled that this will require eternal vigilance in grading and packing. Dark honey must ground. Mr. Graham scatters the bee packed with light, and partly filled sections must not find their way into the middle of a case, but these should be set aside and the honey extracted from them. Grade your honey the case as good as the facing. Then provide yourself with a rubber stamp with your name and address upon it, and stamp all your goods. This will advertise ss, and buyers will gain con- be ce in you and will deal with you in stand behind his goods; for, if you really was continued for several years and both have a good article, consumers will continue to ask for your honey .- Farm Jour-

THE WAY HONEY IS EXTRACTED.

secure extracted honey, the rejuisite number of combs may be in one ong hive or in stories one above another. Preference is most generally given to the latter plan. The brood apartment is made in this case to hold eight to twelve Langstroth framesandasecondandsome-times a third or even a fourth story may be added temporarily. These added tories may be for full-depth frames, or, for convenience in handling and in order to be able to control more closely the amount of space given, they may be half the usual depth and but one of the haif-Repth stories added at a time. If numerous sets of combs are at hand or if it is estrable to have others built, additional tories are put on as fast as the combs already occupied by the bees are filled, avs Frank Benton in an exchange

Before removing the filled comis time should be allowed the bees to ripen and cap the honey; hence enough combs are ecessary to give the bees storage room while they are capping others. The coney in combs that are quite or nearly sealed over may be considered sufficiently ripened to remove from the hive. It hould also be taken promptly in order to keep the various grades or kinds separate. However, when the combs of a given super are completely filled and the bee are especially formed for the sealed it may be marked and left on the working and handling of wax, a subhive if more convenient to be extracted stance that is totally different from later. The cells are uncapped for this skin of fruit. And again, you will ob-purpose and the combs are then made to serve that the surface of comb honey is revolve rapidly in the honey extractor, rough and uneven with slight excres-The centrifugal force exerted on the honey throws it out, leaving the comb cells uninjured or so slightly injured that they are wholly repaired within an hour or so after the return of the comb to the hive. The chief advantages of this method of harvesting over that of crushing the combs are at once apparent when it is known that each pound of comb saved represents several pounds of honey the combs are at once apparent when it except under a temperature of 90 to 100 degrees, and that is the inside temperature of the hive. It must be so soft that about \$20,000,000. The drouth has injured the crop at least two-thirds."

Hon. A. Nelson, Treasurer State Horticultural Society and Member Board of Agriculture, Lebanon, Missouri, says:

"I consider a fair average crop of fruit quality than that obtained oy crushing in the combs and straining out the liquid they can work it just as we work dough they can work it just part, since it is free from crushed bees, larvae, pollen or bee bread, which not only render strained honey dark and strong flavored, but also make it likely to ferment and sour.

The surface of fruit is of a smooth The extracted honey is run into open semi-oily character. There is nothing for

by ckets or tanks and left to stand a week or so in a dry, warm room. It should be skimmed each day until perfectly clear the bees can see, or the skin is are sold by dealers in aplarian supplies. This style of package is a convenient one to transport, and is also acceptable to dealers. Wooden shipping cases are usually constructed so as to hold two of

California is an ideal home for apicul-

turists, and one of the most progressive bee-keepers, noticing that the activity of the insects depended upon the coming of spring flowers, conceived the idea of assisting them to set out earlier on their sisting them to set out earlier on their yearly campaigns. The orchards of the Secramento and San Joachim valleys burst into bloom some months before the southern sage brush, and to them Mr. Graham drove a wagon-load of bee colcules late in January, 1896, says the New York Tribune, to which we are indeed for our information. The journey was an easy one, as the bees had not really aroused themselves. In February the aroused themselves. In February fragrance of the trees stimulated them and they set to work. As the blossoms faded in April, Mr. Graham turned southward again. He traveled by night only, and reached home with practically full coinnies, a honey crop of 100 pounds to each hive, and the sage brush was still open before him. The following two

Since 1899 Mr. Graham has shipped the bees by car-loads from one feeding ground to another. He has had built from his own designs a wagon the size of a common flat car and a crate that exactly fits this wagon. At night he loads the colonies in the crate, about 300 in each, and at the railroad station ships the crate upon the flat car. Then the wagon is taken apart and all are shipped On their arrival wagon, and the colonies are wheeled of and established in their new feeding around the fruit region in the proporton of about a hundred colonies in an area of five square miles, and pays a certain antiformly and try to have the middle of duce a superior fruit, the owner of the orchard is reaping an equal benefit with the apiculturist, if not a greater one. One raiser of alfalfa in Southern Califor nia estimates so highly the help of the bees that he invited the bee-keeper to locate permanently on his farm, sharing re well satisfied with the results

In addition to outfits for transferring the bees Mr. Graham takes with him a regular camping wagon and all the apparatus for extracting honey from th omb. When the combs are the camping wagon. The honey is strained and shipped to the market from the nearest railroad station. Among the fruit lossoms and the spring wild flowers the ees take about fifteen days to fill their ombs, and during that season they pro duce about 100 pounds of strained hone; to a colony. In the sage brush the combi are filled within ten days, and each col-ony gives about 200 pounds in the sea on.-Scientific American.

DO BEES PUNCTURE FRUIT?

Replying to a query concerning the Editor Root of "Gleanings" says: Old black cells have considerable fiber in them and the bees will pick to pieces fibrous article just as we can pick to pieces with our fingers a manila rope. And, again, these old cells have cocoons The imbedded in them. The cappings of brood combs are almost entirely

with very little wax.
But you ask, why is it that be with very little cut through the cappings of comb honey,

mountains, hills and valleys. These the bees can easily grab hold of and pull up That is to say, they can tear, be

cannot cut.
Unless the wax has an irregular surdegrees, and that is the inside tempera-ture of the hive. It must be so soft that they can work it just as we work dough

ck a bee to get hold of; but if the skin has and is then ready to put into cans or bar-rels for marketing or to be stored in a dry pace. Square tin cans, each made to hold sixty pounds of extracted honey,

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Live Stock

DATE CLAIMS FOR LIVE STOCK

oct. &.-F. M. & O. B. Cain and Jas. No-

vinger & Sons, Novinger, Mo., at Kirks-ville, Mo. Shorthorns. Oct. 2.—A. Alexander and R. G. Robb & Son, Morning Sun, Iowa. Shorthorns. Oct. 16-17, 1901-Estate G. W. Kennedy,

Douglas, Ill., Shorthorns. Nev. 5-6.—B. O. Cowan, New Point, Mo., and W. T. & H. R. Clay, Plattsburg, Mo., at Kansas City. Shorthorns. Nov. 12-13.-Purdy Bros., Harris, Mo., and

D. L. Dowdy & Co., Arrington, Kas., at Kansas City, Mo. Shorthorns. Nov. 19, 1901—I. A. Novinger & Sons, Shorthorns, Kirksville, Mo. Dec. 10, 11, 12 and 13.-Kirk B. Armour and Jas. A. Funkhouser, at Kansas City. Hereford cattle.
Dec. 18.—C. D. Bellows, Maryville, Mo., at South Omaha. Shorthorns.

at South Omaha. Shorthorns.
Dec. 18-19, 1991—Gudgell & Simpson, C.
A. Stannard and Scott & March, Herefords, at Fort Worth, Tex.
January 28 to 31, 1991.—Sothams' annual
Criterion Sale, at Kansas City.
Jan. 14, 15 and 16.—Cornish & Patten, Osborn, Mo., and others, at Kansas City.

born, Mo., and others, at Kansas City, Hereford cattle.

Feb. II-12, 1902.—Redhead Anisty, Boyles and others, at South Omaha, Neb. Here-ford cattle.

ford cattle.

March 6-7.—I. M. Forbes & Son, Henry,
Ill.; J. F. Prather, Williamsville, Ill.;
B. E. Frather & Son, Springfield, Ill.;
C. B. Dustin & Son, Summer Hill, Ill.;
T. J. Wornall, Mosby, Mo., and others,
at Chicago, Ill. Shorthorns. at Chicago, Ill. Shorthorns.

March 11.-W. P. Nichols, West Liberty,
Iowa. Shorthorns.

June 19.—C. E. McLane, Danville, Ind., at Indianapolis. Double Standard Polled Durhams. The "National Hereford Exchange" un-der management of T. F. B. Sotham, as

Nov. 20-22, 1901.—East St. Louis. March 25-27, 1902.—Chicago. March 25-71, 1902.—Chicago.
April 23-24, 1902.—Kansas City.
May 77-29, 1902.—Omaha.
June 24-26, 1902.—Chicago.
POLAND CHINAS.
Aug. 22.—C. N. Sutter, Minier, Ill.
Aug. 23.—J. A. Rosenberry, Goodwine,
Ill.

Bept. 4.—Dan Hallowell, Farmer City, Ill. Sept. 17.—T. R. Wilson. Morning Sun, Ia. Sept. 18.—J. H. McMilton, Decatur, Ill. 19.—D. A. Good, Bearsdale, Ill. 20.—A. L. Busey, Sidney, Ill. 25.—Price & Claybaugh, Biggsville,

Sept. 28.—Price & Claybangh, Biggsvine, Ill.

Oct. 4.—J. W. Funk, Hayworth, Ill.
Sale at Ill. State Fair Grounds, Springfield, Ill.
—Kansas City Show and Sale.
Oct. 12.—R. T. Williams, Russeliville, Mo.
Oct. 17, 18, 19, 21.—American Angora Goat
Show and Sale, W. T. McIntire, Sec.
and Manager, Stock Yards, Kansas
City, Mo.
Oct. 21.—G. E. Leslie, Memphis, Mo.
Oct. 22.—J. T. Robinson, Bates City, Mo.
Oct. 22.—J. T. Robinson, Bates City, Mo.
Oct. 24.—F. H. Schooler, Rockport, Mo.
Oct. 25.—W. N. Winn & Son, Kansas City,
Mo.

10.

1. 28.—T. H. Martin, Kansas City, Mo.

1. 28.—C. E. Pogue, Findlay, Ill.

v. 4.—J. W. William, Cisco, Ill.

v. 6.—C. O. Minnis, Edinburg, Il.

v. 6.—C. C. Brown, Heyworth, Ill.

v. 7.—D. J. Walters, Kumler, Ill.

v. 8.—W. R. Loveless, Gibson City, Ill.

v. 12.—A. G. Woodbury, Danville, Ill.

v. 13.—E. H. Wane, Douglas, Ill.

v. 14.—E. L. Jimison, Oneida, Ill.

v. 15.—W. J. McKibben, Garden Praile, Ill. 19.—Victor Wiley, Fuller, Ill. 20.—H. G. Davis, Woodland, Ill. 28.—J. B. Fink, Herborn, Ill.

Nov. 28.—J. B. Fink, Herborn, III.

ABERDEEN ANGUS CATTLE.
Oct. 4—Combination sale, W. C. McGavock, mgr., Springfield, III.
Oct. 17-18—National sale, W. C. McGav-

ock, mgr., Kansas City.
Dec. 3-6—International sale, W. C. McGavock, mgr., Chicago.
Feb. 4-6—Combination sale, W. C. Mc-Gavock, mgr., Chicago. April 10-11—Combination sale, W. C. Mc-Gavock, mgr., Kansas City.
June 10-11-Combination sale, W. C. McGavock, mgr., Chicago.
NATIONAL SHORTHORN SHOWS

AND SALES.

Sept. 2-7—Hamlin, Minn.
Sept. 23-28—Louisville, Ky.
Oct. 18-25—Kansas City, Mo.
Dec. 2-7—Chicago, Ill.
NATIONAL HEREFORD SHOWS.

Sept. 27—Hamiln, Minn.
Sept. 23-28—Louisville, Ky.
Oct. 18-25—Kansas City, Mo.
Dec. 2-7—Chicago, Ill.
NATIONAL HEREFORD SALES. Sept. 4-5-Hamlin, Minn. pt. 24-25—Louisville, Ky. ct. 22-23-24—Kansas City, Mo.

THE NEBRASKA STOCK OUTLOOK

Illinois and other states labor under the eod States and Canada, who are interimpression that the drouth through the West did damage of an irreparable nature ings are a result of an anxiety expressed

anent character on the Nebraska live stock industry it was along the line stock men to be present at these meetings. F. A. CONVERSE, der which the stock man thrives through there was a good deal said about the enormous receipts of live stock, both hogs and cattle, at the South Omaha yards.

over the drouth, really relieved the range and those sections where the range was congested. In this respect at least the stock interests have reaped a positive benefit from the dry spell.

WILL BE A CORN CROP.—There is no consistency in the afternoon. Kansas City show October 16 to 26.

question that considerable corn will be produced in Nebraska this year. Late corn is in fair shape. It is variously es-timated by those who know the inside sit-uation that the corn yield will be from one hundred and forty to one hundred and fifty million bushels. In many counties the yield is actually normal. Coupled with this fact there is much old corn in the state. For instance, in Pawnee county, John W. Bookwalter, a well-known farmer, has 130,000 bushels of old corn in which extend over a distance of 2,700 feet. This section of the state is covered with cribs full of old corn. Of course, all kinds of grain will be a good deal higher in Nebraska this fall than last year Where hav sold for five dollars a ton last year it will be worth ten and twelve dol-lars a ton this fail. This means higher priced cattle both in the feed yards and at the Omaha Stock Yards. The South Omaha packers are prepared, nowever, to take all the stock offered this fall, and the capacity of the packing houses will be run to the limit this winter. The yardage to be a compared to the compared to the capacity of the packet. facilities have lately been much increase and improved at South Omaha, and altogether the situation is very good for the live stock men of the west. GARNETT C. PORTER.

Omaha, Neb.

GOOD CHANCE TO GET GOOD

Editor RURAL WORLD: On acc of the drouth and almost complete failure of crops in this section of the state, we are compelled to reduce our large herd of Shorthorns before going into winter quarters and therefore we are now offering such bargains as buyers seldom find our herd consists of Waterloos, Wild Eyes, Peris, Barringtons, Rosemarys, Young Phyllises, Young Marys, Inthas, Butterflys and Orange Blossoms. We have yearlings and two-year-old bulls, yearling heifers and two-year-old heifers, cows with calves at foot and cows with-out calves in numbers to suit the pur-We offer a special discount lots of ten or more. If any one wants upto-date Shorthorns almost at his own price now is his chance.

GENTRY BROS., Cedar Vale Farm, Sedalia, Mo.

LIVE STOCK SHOWS

At the Pan-American Exposition. Editor RURAL WORLD: As the time

approaches for the live stock show at the Pan-American Exposition, the indications are that one of the largest and best shows ever brought together will be seen at Buf-falo, the dates for which are as follows: Bench show......Aug. 27 to Aug. 30Aug. 26 to Sept. 7 and, through the courtesy of the New York State Commission, the meetings will be held in the audience room of the New York State Building, as follows: Swine Breeders, September 4; Cattle Breeders

to the live stock industry of several of on the part of live stock men to get in the states.

The condition is really the reverse. If the protracted drouth had any effect of a South and Central America as well.

A general invitation is extended to all ings. F. A. CUNVERNING.
Supt. of Live Stock, Pan-American Expe

TO SHORTHORN BREEDERS.

State Agricultural Society present, who had been invited to speak upon the question. "How to increase the Growth of the Herds on the Grand and speaking upon "How to Decrease the Growth of the Herds on the Nebraska Range." In other words, he conceived that the limit had been reached as at to the capacity of the range in the state and that the constant importations of Nebraska can never reach a point of Nebraska can never re

tember 26, probably in the afternoon.

Kansas City show October 16 to 26.

Chicago shows December 1 to 7.

B. O. COWAN, Ass't. Sec'y.

Springfield, Ill.

A CALL TO STOCK BREEDERS.

To Meet in St. Louis, August 30, 1901. To the Live Stock Breeders' Associa

tions: The location of the World's Fair for 1968, at St. Louis, in the center of the breeding district, so noted for the unsurpassed excellence of the improved breeds of horses, cattle, sheep, swine and by hand in the usual manner and put in oultry, gives great encouragement for a and creditable exhibit at St. The various live stock associations rep-

esenting the several breeds of improved animals are invited to co-operate in the

Each national association is requested to send three delegates to a convention to be held at the Lindell Hotel, St. Louis, Missouri, on Friday, August 30, at 11 o'clock a. m., for the purpose of conference as to the best methods to pursue to ensure the success of the live stock whibit at the St. Louis World's Fair. Each national live stock and poultry association should be represented at the conference called for August 30, 1901.

It is suggested, where the Executive mittee of said associations cannot b convened to appoint the delegates, that the president appoint the delegates and report the names to Governor N. J. Col-

an, St. Louis, Missouri. CHARLES E. LEONARD,

N. H. GENTRY, President American Berkshire Associa

JEROME A. LELAND.

CATTLE GRAZING IN CREEK NA-TION. Muscogee, I. T., August 14.—Indian Inspector Wright, of this place, has issued the following notice regarding the graz-

ing of cattle in the Creek Nation: "The secretary of the interior has, under date of July 23, 1901, promulgated the following regulations concerning cattle grazed on the public domain of the Creek

'That parties desiring to introduce or "That parties desiring to indomain of graze cattle upon the public domain of the Creek Nation shall first make appli-cation to the United States Indian inspector for the Indian Territory, and shall pay to the United States Indian agent, Union agency, the rate of \$1 per head for cattle desired to be grazed thereon, which amount shall be paid prior to the time Sept. 9 to Sept. 21 the cattle are so introduced; and that infringing upon the lands of adjoining allottees.'

"'Where cattle are confined to fence inclosures, or pastures, part of which has been selected and leased by individua citizens, a grazing tax on the unselected THE NEBRASKA STOCK OUTLOOK.

Breeders, September 4; Cattle Breeders and Dalrymen, September 19 and 20; Dortion of such pasture shall be based on a full, fair rental, provided that such such conditions through Nebraska and the states further west. From the tone of some of these communications many persons in the business through Missouri, previously paid for grazing privileges shall be forfeited.'

"The revenue inspector for the Creek Nation has been directed to procure information and see that proper remittances are forwarded to the United States Indian agent for cattle so grazed during the

after on the public domain, or on lands not selected or in possession of Creek citizens, should proceed in the manner indi-

SOW RYE AND HOLD THE STOCK

SAVE THE FODDER.—The green corn that is drying up should be utilized by feeding it now while green, where other feed cannot be obtained, and as soon as the bottom blades begin to burn it should be cut and cured, and when thoroughly Louis were attacked within a space of the days. Dealers in provisions were uncertainty. We do not recommend cutting the of the street cars; in fact, the business cannot further mature or until you see of that it is beginning to burn. The better that it is beginning to burn. The better the crop is matured the greater will be its feeding value. This corn can be cut by hand in the usual manner and put in very small shocks to cure, or put in large beacks. The parties were also becked to be a correct to the shock of the shock to cure, or put in large beacks. The shock is the shock of the sho and when harvested in this way it is much easier to handle. G. B. ELLIS

Secy. Mo. State Bd. of Agl. Columbia, Mo.

Veterinary

Answers to questions in this department are given by Dr. T. E. White, former State Veterinarian for Missouri, Sedalia, Mo. Write questions on one side of paper only, and separate from other business. Those wishing a written reply privately must accompany their requests with a fee of one dollar, the professional opinion being one of private advantage.

emedy. He has spells of something like colic about once every three or four weeks. He does not swell at all, but will good working order; has been at work it the year.

T. A. BRADLEY.

This trouble is quite often mistaken from the inability of the animal to urin-There is a cause for this trouble, but it would necessitate a personal ex-amination to ascertain this fact. As you say nothing about the kind or quality of feed or the water very little idea of the trouble can be gained from your letter. The horse may have bad or uneven grinder teeth; such a condition always causes indigestion. You had better see to it and if such is the case have a veterinarian to work on them. With the present knowledge, the only remedy that can be suggested is in the next attack to give a pint of raw linseed oil. Do not drench in the nostril unless you want to kill him-always drench in the mouth.

> INK EYE IN CATTLE AND HORSES.

I have a bunch of cattle that has pink eye. Will horses take the disease from the cattle, and how long after exposure

efore the disease becomes manifest?
Allen Co., Kas. BEN S. BURFORD. Almost daily I am asked, in my private practice, if pink eye in cattle is the same lisease as pink eye in the horse. My inswer is always "No;" for there is no Market Report Furnished by Evans-Sui-Market Report Furnished by Evans-Sui-Market Report Furnished by Evans-Sui-Market Report Furnished by Evans-Suisimilarity in the diseases whatever. Epi-

and they are quick to take advantage of the state ready to buy that while much of this stock was mean stock and ship it back to their feed that while much of this stock was in the proposal of the state ready to buy that while much of this stock was in the proposal state with the proposal state with the proposal state with the proposal state was not become the proposal state was

dry should be put in the barn or in stacks ten days. Dealers in provisions were un-covered with straw, and if taken care of in this way will make a great amount of business men found it difficult to reach the provision of the withdrawal business men found it difficult to reach their offices by reason of the withdrawal of the street cars; in fact, the business

shocks, putting up a part of the shock thousand horses dying—it seemed at that and after it cures cutting the remainder; time incurable. In 168 it broke out but perhaps the most satisfactory way among the horses of the French army, will be to harvest with the corn harvester among the horses of the French army. In 1699 both Europe and America suffered from the disease. In 1688 there was another outbreak, and again in 1732, prevailing each time in both hemispheres. hear of it again in 1776, after a severe winter and very hot summer. In 1788 in-fluenza was very severe in New York and Maryland, causing great mortality among the horses. Then again in 1849-50, 1863 and 1864, the last outbreak being in 1871— in London and in America the latest was in 1872-1873.

STOCK NOTES.

POWELL BROS., Lee's Summit, Mo.

F. M. MARSHAL, Blackwater, Mo. INDIGESTION.—Please tell me what is the matter with my horse and give a Write him and see what he will do for

COL. W. H. FULKERSON & SON. Jerweeks. He does not swell at all, but will lie down and get up often, yet does not seyville, Ill., are offering some Bates and seem to be in much pain. He tries to Scotch topped Bates Shorthorn cattle urinate, but cannot. He is not fat, but is at prices that ought to find buyers at Write them.

R. S. WILLIAMS, Liberty, Mo., breeds Indigestion is caused by inability on high class Aberdeen-Angus cattle. If you the part of the stomach and intestinal want a No. 1 buil to head your herd, he rract to digest and assimilate the food the animal has eaten.

has got him. Go and see his herd; it will bear inspection.

> THE BUREAU OF ANIMAL INDUS-TRY of the Department of Agriculture is making arrangements to have photographs made of representative cattle a the Pan-American Exposition for use in government publications. This is a mer-ited recognition of the thorough manner in which this important department of the Exposition is being conducted.

COOPER CO. (MO.) STOCK.—R. M. Woodruff, of Cooper county, a regular shipper to this market and a prominent feeder, marketed 103 head of 1,440-pound steers of his own feeding at \$5.00, next to the highest price of the day; they were taken by the St. Louis Dressed Beef Co. Lee O'Neil, a prominent young feeder and shipper of Cooper county, was in to-day with 27 head of good quality, well-finished steers of his own feeding that averaged 1,388 pounds and topped the beef trade at \$5.65. Mr. O'Neil is a good feeder and seldom fails to top the mar-ket with his finished cattle when he

ST. LOUIS NATIONAL STOCK YARDS.

Market Report Farnished by Evans-Snider-Buel Company.

Yearlings sold at a full range of \$2.15 to \$4.15 and the bulk of sales at \$3.00 to \$3.50. Veal calves, full range \$4.00 to \$5.25 per

der-Buel Company.

| Similarity in the diseases whatever. Epi| Bootic bovine opthalmia (cattle pink eye) |
| Spurely and simply an affection of the eye, and is, if treated immediately with salt solution, cured in a few days. If against 21,895 cattle, 25,444 hogs and 13,018 sheep, and is, if treated immediately with salt solution, cured in a few days. If against 21,895 cattle, 25,444 hogs and 12,018 sheep, and is, if treated immediately with salt solution, cured in a few days. If against 21,895 cattle, 25,444 hogs and 12,018 sheep, and 12,018 sheep, and sheep he previous week. As compared with corresponding week year ago, cattle with corresponding week year ago, cattle decreased 255, hogs increased 6,297, and sheep 1,304. Receipts in round numbers at the four principal markets were 152,800 to \$2.50. During the week the milkers of mine on pink eye in cattle, and as long as they last anyone interested can long as they last anyone interested can long as they last anyone interested can long and the four principal markets were 152,800 hogs and 145,000 sheep, and as long and the four principal markets were 152,800 hogs and 145,000 sheep.

of mine on pink eye in cattle, and as long as they last anyone interested can have a copy by addressing Dr. T. E. White, 204 E. 4th, Sedalia, Mo., inclosing a two-cent stamp to pay postage.

White, 204 E. 4th, Sedalia, Mo., inclosing a two-cent stamp to pay postage.

INFLUENZA IN HORSES.—Influenza has prevalled quite extensively in and around Sedalia since last winter, and, in fact, from reports received, it has prevailed more or less all over the United States. Its duration is very variable. In some invasions it will last for two or three months; in others for only two or three weeks, and again in others for a year or more.

SYMPTOMS.—As a rule, influenza commences very sudedny, and nearly always without any premonitory symptoms exwithout any premonitory symptoms exwitched to the course of good cow and helfer butcher.

At the four principal markets were 152,500 shops and 124,000 sheep, against 152,700 cattle, 263,000 hogs and 145,000 sheep, against 152,700 cattle, 263,000 hogs and 145,100 sheep, against 152,700 cattle, 263,000 hogs and 124,000 to \$77.00.

CATTLE—Receipts in native division were composed principally of dry weather of the scarcity of stock water. There were very few good cattle and none that could be termed strictly choice or fancy. Two loads sold this week at \$5.75. The early market was about steady, but closed fully 10c lower much heavier—125 cars. Prices on best grades on sale ruled about same as week ago, while the medium and pretty good kinds were 10c to 20c lower. Receipts of calves have been fairly library. The course of the four principal markets were 152,500 hogs and 145,000 sheep, against 152,700 cattle, 202,100 hogs and 145,100 sheep, against 152,700 catt There has been a great deal of free admost time the American Shorthorn beeders' Association congratulates all needs and were disposing of their stock to await times when forage was not so high. At the same time, where one stockman was found ready to ship his herds because of the long drouth, a dozen farmers and stockmen were found at the yards from stockmen were found at the yards from other parts of the state ready to buy that same stock and ship it back to their feed loss and fields. It is a remarkable fact that while much of this stock was in very fair condition and easily convertible into packing house products, the bulk of it was here in a to the farmers of the West were lossing faith in the business and were disposing of their stock to and ship it back to their feed on the parts of the state ready to bulk has a remarkable fact that while much of this stock was in very fair condition and as all y convertible into packing house products, the last was a choice lot of cattle, being carefully seven the contained products and at the prices realised each of the medium and the mences very suddenly, and nearly always mences very suddenly, and nearly always mences very suddenly, and nearly always pretty good kinds were 10c to 20c lower. Receipts of good cow and helfer butcher stuff were light, and a good demand pretty from the legs, while the commont the throat. The visible weight helfers soid strong, while the medium and mences very suddenly, and nearly always mences very suddenly, and nearly always witce given to farmers on what to do the legs, while the common and pretty good kinds were 10c to 20c lower. Receipts of good cow and helfer butcher stuff were light, and a good demand pretty good with the legs, while the common and pretty good with the legs, while the common and pretty good with the legs, while the common and pretty good with the legs, while the common and pretty good with the legs, while the common and pretty good with the legs, while the drouth losses, and white quit of the same stock that the farme



Gentry Bros. Codar Valo Stock Farm

SEDALIA, MO.

Shorthorn Bulls for Sale!

Baron Thorndale 123,000; Dark Roan of April 20, 1895, at \$200, or will trade him for heifers. Also 6-year pulls by Baron Thorndale and out of dams of Rasterday and Secret; these strains have been in the befine 1895, and are great milkers. Call on or address. L. G. JONES, Towanda, Ill.

SCOTT & MARCH, Breeders of

Registered Herefords.

HEREFORDS 600 HEAD IN HERD.

Gudgell & Simpson, Independence, Mo.

ST. LOUIS NATIONAL STOCK YARDS.

THE LIVE STOCK MARKET OF ST. LOUIS. Located at East St. Louis, directly opposite the city of St. Louis. Shippers should see that their stock is billed directly to the

National = Stock = Yards.
C. G. KNOX, V.-Pres. C. T. JONES, Gen. M'gr. L. W. KRAKE, As'st. Gen. Mgr.

Shorthorn Cattle. Scotch, Scotch Topped, Bates and Bates Topped. As good blood as the breed contains. Imp. Nonparell Victor 132673, Imp. Blackwatch 153334, Grand Victor 115752 and Windsome Duke 11th, 121622, in service and large English Yorkshires. Young stock for sale. Come and see or address, the containing the containing

Blackwater Shorthorns. F. M. Marshal, Prop. BLACKWATER, Herd headed by the Cruickshank Bull. Orange Hero 152,885 by Godoy. Females are of pure Scotch and pure Bates, with individual merit the standard. Young stock of bot — for sale.

ORTIZ FRUIT FARM, MEXICO.
SHORTHORN CATLE of pure Scotch, Bates and leading American families. BERKSHIRES of
leading families of the breed. English Setters and Scotch Terriers that have been winners at leading bench shows of this country. Stock of all kinds for sale. Visitors always welcome.

M. B. GUTHRIE, Mexico, Mo.

SHORTHORNS, BERKSHIRES and JACKS

"BLACKLEGINE."

Pasteur Blackleg Vaccine, Single Treatment ready for use. No mix-ing, filtering or injecting. Applied with a needle furnished free.

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TEBO LAWN HERD OF SHORTHORNS

C. M. CASEY, SHAWNEE MOUND, HENRY COUNTY, MO.

Railway Station,! Clinton, Mo.

LINES OF BREEDING—"The Casey Mixture," Cruickshanks and other Scotch cattle, Bates and Renick Rose of Sharons.

HERD BULLS—Imp. Cellynie 135022, bred by Wm. Duthie; Imp. Blythe Victor 140608, bred by W. S. Marr; Admiral Geday 133872, bred by Col. C. E. Leonard; Victor Bashful 152707, bred by J. R. Crawford & Sons; Victor Abbott, bred by T. J. Wallace & Son, and Sectilsh Lavender, bred by Hanna & Co.

Address all correspondence to

rough to best, \$4.10 to \$5.50, bulk of sales

at \$4.85 to \$5.70; steers, 1,000 to 1,190 pounds

average, full range, \$3.45 to \$5.40, bulk of sales at \$4.35 to \$5.00; steers weighing less than 1,000 pounds full range \$3.00 to \$5.00, bulk sold at \$3.40 to \$4.30. Feeding steers,

fair to choice, 800 pounds and upwards, \$3.00 to \$3.75, the bulk at \$3.25 to \$3.50, and

and the quality was fair; stock heifer

full range \$2.30 to \$3.35 and the bulk at

\$2.50 to \$3.00. Fancy native helfers sell at \$4.50 to \$5.00, and there were very few on the market; choice native helfers sell at \$4.10 to \$4.75; good native cows and helfers

sell at \$3.10 to \$4.40; medium cows at \$2.50 to \$3.25; fair cows \$2.00 to \$2.75; inferior light and old cows \$1.00 to \$2.25; the bull of the southwest cows sold at \$2.00 to \$2.66

and the bulk of all the cows sold at \$2.26

to \$3.25. Canning cows sell at \$1.25 to \$2.25

E. M. WILLIAMS, Manager, Shawnee Mound, Mo.

Hereford Cattle! 20 bulls and 20 heifers for sale, all registered, choicely bred. Call on or address N. E. MOSHER & SON, Salisbury, Mo.

-HEAD-SHORTHORNS Cruickshank bull Duke of Hardson 123,967 at bead of herd. W. H. H. Stephens. Bunceton. Mo.

Shorthorn Cattle.

Berkshire Hogs, Cotswold and Shrepshire Sheep. Bulls ready for service. Some choice boars and 15 alls Violets Prince 145,647 and Gold JOHN MORRIS, Chillicothe, Mo.

CEDAR VIEW AND GROVE HILL SHORTHORNS.

addie 119,293 at head of herd. Young stock for Call or write. POWELL BROS., Lee's Summit, Mo. ENGLISH Red Polled Cattle. fine stock. #Your orders solicited. L. K. HASELTINE, Dorchester, Greene Co.. Mo

Shorthorn Cattle, Berkshire Hogs, Angora Goats, Light Brahma and Golden Seabright chickens. Stock and eggs for sale. Call on or address J. J. LITTRELL, Sturgeon, Mo.

R. S. WILLIAMS, Liberty, Mo. Breeder of high-class Angue cattle. Zaire 17th, 46583, agrandson of imp. Emlyn 18311, and famous Black Monk in service. Choice young bulls and females of the richest breeding and individually first class for sale. All leading families represented.

SHORTHORN CATTLE—Foundation stock was blood known to the breed, and Poland-China hogs of

RAVENSWOOD HERD SHORTHORNS.

125 head in herd. 20 bulls for sale from 6 to 16 months old. Scotch and Scotch top ped. Herd headed by (Lavender Viscount 124755), the champion Shorthorn bull of the Kansas City Show, 1900.

ED. PATTERSON, Manager.

B. B. and telephone station. Bunceton, Me.

Horseman



Not only do we lead the world in speed

headed the stud at D. R. Mills' Mambrino Park. He was a chestnut horse, foaled 1885, and by Red Wilkes, out of Fanny D., by Star Almont.

Africa for army use. It is estimated that uated on the Rhine. the sum paid by the English government up to the present time for animals bought in two states, Missouri and Kansas, is

own her is now a matter of sentiment with Frank Jones, says "The Horseman."

them so thin one could count their ribs.
To-day all is different. A horse is fed
more of hay, is not kept so heavily blank-

Jay-Eye-See, the famous trotting gelding, with a trotting record of 2:10, and pacing record of 2:06, nearly bled to death cently at the Case farm, Racine, Wis., where he had been allowed to run about the for the past eight years. Recently the gelding struck a foreleg on a barbed wire fencing, and cut himself badly. When found by farm hands he was in a weak

S., trotting in 2:08%, travels 41.10 feet a and would be six and one-half onds behind him when she finished, or a distance of 267.85 feet, and Dexter, at a rate of 2:17%, goes 38.50 feet per second, and being 15 seconds behind Cresceus at the finish, the distance in feet would be The rate of the slower horse in feet must be multiplied by the number of seconds by which he is beaten to get the

this village from heart disease. Stamboul was a prize winner at various horse shows in the country and had won a number of blue ribbons at horse shows held in Madison Square Garden. The lum of the true horse was bred in California and was America. purchased by Mr. Harriman several years ago for \$42,000. The horse was brought to Goshen and he has served in the stud

be made. We believe that the speed abli-ity of trotters will be increased in the future, just as it has been in the past, by introducing fresh infusions of racing trotter that it will ever be possible to blood either from the fastest and stout-est of race winners themselves or their descendants. This breeding-up process to argue that a family of horses may be and assimilation of the best of racing produced that will be able to walk as with the best of what is termed trotting fast as horses now trot, as to claim that blood will be continued, until finally the ity of cases. The improvement in the near future will be in the speed capacity of there is greater probability of improving

Tire Wheels For Farm Wagon HAVANA METAL WHEEL CO. Havana, III.

Onward (2:25%) for supremacy as sires of 2:30 performers has been an interesting one for several years past. At the close of last season Red Wilkes was credited with a total of 155 that had taken records of 2:30 or better, 112 trotters and 46 pacers nward's list then stood at 189, of which were trotters and 39 pacers. Up to the beginning of last week two new trot-ters and one pacer had been added to Red Wilkes' list this season, giving him 114 trotters and 47 pacers, a total of 161 ward's list had been increased by one trotter, giving him 12i trotters and thirty-nine pacers, a total of 160, or one less in the aggregate than Red Wilkes.

Not only do we lead the world in speed development, but we lead also in devices and inventions to accelerate speed. We have evolved not only the fastest trotting horse in the world, and the fastest pacing place in the world, but also the fastest racing gig in the world.

Chestnut Wilkes, 2:23½, died last week at Des Moines, Ia., the property of Chase Bros. Chestnut Wilkes was the sire of Chestnut Girl, 2:24¼; Konvalinka, 2:25½, and Quinchesta, 2:28¼, and for some years headed the stud at D. R. Mills' Mambrino horse whose name the majority of horse-instance whose name wh horse whose name the majority of horse-men fall to pronounce correctly. The first syllable, Bing, should be pronounced to rhyme with sting, ring and bring, but It is stated upon good authority that many give the leter g the sound of 1 agents of the English government have making the name Bin-jen, which is in-paid out in Kansas City alone \$1,000,000 correct. The name is properly pronounced for horses and mules to ship to South

ceus, and he has not lost faith in The Eleata could not be purchased, since to Abbot. The two-minute line may not be two wn her is now a matter of sentiment with Frank Jones, says "The Horseman." Hamlin has taken such good care of himshe won more than the classic M. and M. self and is of such a self-reliant nature many a wise man to change his opinion.

The pacing stallion Charley Hayt, by one horse usually has in a turf career embracing only three races, says the "Hrose World." Last season he started in two races and in the first heat he ever won he took a record of 2:07%. A few days after taking that record he broke this year, and after winning the first least in 2:063/2, wrenched an ankle and was Locust Valley, ch. h. (L. P. Harri-

expeditions, especially in search of fossil horses, one to Texas and one to eastern Colorado. Word has just been received at the museum that the very first discovery made by the Texas party included three skulls of the three-toed horse, protohippus, associated with parts of the legs, feet and backbone. This is one of the stages especially desired in a long series leading up to the modern horse. The skulls are reported to be the best seconds by which he is beaten to get the time result in such calculations as this. Goshen, N. Y., Auguet 17.—Stamboul, Special series of explorations. The pro-2:07%, the famous stallion owned by E. H. tohippus belongs to the pilocene and is Harriman of New York, dropped dead this believed to be the immediate ancestor of morning at the Arden farms stables in this village from heart disease. Stamboul was a prise winner at various horse whome at various horse shows in the country and had won a a representative of a side line. All recent researches go to prove that the phy-

Robert McGregor has sired fourteen rooters with records better that 2:15, and only two with records better than 2:13. He sired but few pacers, his fastest being Kentucky Star, 2:08½. A dozen of his The big money winning trotters in the two Grand Circuit meetings held so far are: Eleata, \$7,100; Country Jay, \$3,-875; Cresceus, \$2,500; Charley Mac, \$2,000; Charley Herr, \$1,575; Neva Bimmons, \$1,-725. Among the pacers the largest winners are: Star Pugh, \$3,750; Dan Patch, \$2,500; Anaconda, \$2,500; Sphinx S., \$1,875; Herry Logan, \$1,600. It is here speed and \$1,875. has similarly in the largest wintakes a lot of
management to win in Grand
tion as sires of speed before they pass circuit company this year, as will be away or lose their usefulness. Leaving seen by looking over the names of the winners here given. A pacer that cannot bilities are that when the future historian

osses will be so deeply buried that fluence exerted by such will be find quite overcome in a major-will approach it more nearly fifty years asses. The improvement in the near hence than they ever yet have done, for ruture will be in the speed capacity of the role in the animals rather than in tracks, sulkies and other appliances. There is a difference of opinion among successful trainers the best of the thoroughbred runners in regard to the limit of trotting speed. possess some valuable qualities that can E. F. Geers, who is as well qualified by ence of opinion among successful trainers ence of opinion among successful trainers in regard to the limit of trotting speed.

E. F. Geers, who is as well qualified by experience as the best of them, states in by this means the latter will be improved, and in this the trotter has an advantage over the runner so far as im-

As may be gathered from our writings, campaign, that he had gone bilind. It is we by no means agree with those reporters who never miss an opportunity of extending the superlative reinsmanship of Geers and McHenry at the expense of ton. As may be gathered from our writings,

his work recently published, that he be-lieves that the trotting record will be lowered to two minutes.

The contest between Red Wilkes and are silent as to the artistic work of equally good drivers whom those we sulky artists happen to beat in a close finish, but when "the boot is on the other leg," the Boswell of the trainers named, a real silent as to the artistic work of Andrews, Golden, McDowell, Splan, Kelly, McCarthy and other noted drivers, when at their best. The skill of Geers, when their best. The skill of Geers, when their best. The skill of Geers, when the their best. The skill of Geers, which he picks from the conditioning of a horse and in driving him to victory, is not to be gain-said; he has the requisites of success, judgment, patience and resolution. Doubtless his high winning average is supported by the superior class of horses which he picks from the Village Farm and other stables. But once again the Detroit meeting has demonstrated that there are other trainers and drivers of extraordinary capacity—for example John Trout. Though a quarter of a century has passed since he drove American Girl, 25%, and nearly 30 years have rolled by since he sat behind Huntress when she made a world's record of 7:22%, for three miles to high whele sulky, his handing of Andrews Geere, 2:20%, to see the first the condition by Tom Keating, the lamented California horseman. In this college of the new 2:19 years have produced at the would have reached the mented California horseman. In this college of the new and the conditioning of the new 2:10 years have produced at the pace.

Of all the bosh I have seen written in first the produced produced at the pace.

Of all the bosh I have seen written in this world with the horse, who was kept in fine racing condition by Tom Keating, the lamented California horseman. In this college of the new 2:10 years of age (the rest is little out the head of Crescous; 2:10%, there is little out the horse, who was kept in fine racing condition by Tom Keating, the lamented California horseman. In this college of the new college with the horse, who was kept in fine racing condition by Tom Keating, the lamented California horseman. In this collection a meed of praise is due Andy McDowell for lowering Coney's record at
the start. When these horses were sold
to their present owners some of the critics wagged their heads and mitmated that
McHenry held the key to the successful
racing of both animals. And the driver,
with justifiable confidence in his own
ability in bearing testimony to Anaconsagainst Nightingale, 2:10%, made when
be would have reached the
two-minute mark ere this."

The dam of Maud S., 2:0%, was foaled
in 1880. At 21 years of age Miss Russell
to their present owners some of the criteist, made her record when her mother
was 20 years of age. Mabel's fastest was
Cresceus, 2:04, made when his dam was
the same age. Her next fastest was Nutwood, 2:18%, made when his dam was 1,
against Nightingale, 2:10%, made when
be and made shee that the best of them
two-manute and made shoe that the best of them
two-manute and made shoe that the best of them
two-manute).

They are easily fitted, are made of
good material, and in the case of a lost
on to the same nails
to the favorite around the turn in :41½,
on to the half in 1:0½, and back home in
be adjusted to the foot and the same nail
boles in the wall used, instead of making
ones are smaller than the fore, as they
shoe. For each of the feet, if the hind
ones are smaller than the fore, as they
shoe in the case of a hand made of
the rear, wile grap-halred "Jacely" Trout
sent the favorite around the turn in :41½,
on to the half in 1:0½ and back home in
be adjusted to the foot and the same nail
boles in the wall used, instead of making
onto the half in 1:0½ and back home in
be adjusted to the foot and the same nail
boles in the wall used, instead of making
onto the half in 1:0½.

ANACONDA OUT FOR A KILLING.
Both horses were boiling when they
seemed as if he meant business this time,
and when Frank Walker shouted "Go!"

Here are asily fitted, are maskel.

The dam of Mavel.

T

Classified pace: Gramella, ch. m. (W. F. Miller)...

where. This horse has developed into the greatest ringer of recent years, and has already won the championship from Tar Tartar as the horse with the greatest number of names. In a twelvemonth he has started under six names, Thomas Penfield, Guy W., Bonnie W., George W., and Red Doctor. Last year Felix Reynolds made enough money off the horse to enable him to take unto himself a wife, notwithstanding his sixty odd years, but the American Trotting Association is leading him such a dog's life now that Reynolds must have lost ere this all that he saved of last year's ill-gotten gains. The ringer that turned up at Marietta in June as Bonnie W. was none other than Jerry W. He started at Peoria and was paid first money. At Clinton, Iowa, the American Association drove him out before the races began. Then the outfit urned up at Tekamah, Neb., where the :30 trot was won under the name of Red Doctor. As the winnings were withheld, the engagement at Fremont, Neb., for last week was not filed, so in all proba-bility Jerry W. will be in a green field again this week sporting his seventh alias. Reynolds, who manages the expe-dition, is about 60 years of age, smooth faced, most of the time with a scrubby gray growth, gray eyebrows and gray hair; is not over five and one-half feet in ringing expedition that promises to be the leading affair of its kind, like the season. Brussels, by Blue Bull, out of a Jerry W. case emanates from Cleveland, mare by a son of Hambletonian, second and implicates some prominent people in dam by Blue Bull, is the sire of Nancy seen by looking over the names of the winners here given. A pacer that cannot test in 2:13, is out of it so far as winning first money in the Grand Circuit is concerned. We believe, says the "Horse Breeder," that it is only a question of time when the two-minute record will be made by a trotter. All the arguments in the world will not change the facts. Progress, both intelligent and accidental, will continue to be made. We believe that the speed ability of trotters will be increased in the coming May sale, and that, showing that Day went to Galesburg last summer to see the horse perform and that later Day's son came on to Peoria and made the purchase. If the affair is as Waugh relates, the facts have come out through

a falling out of those controlling the horse and Waugh. The sale of Fred Wil-

L. E. CLEMENT'S HORSE GOSSIP.

against Nightingale, 2:10%, made when is dam was 1, but off to measurement and you then have the foppeld wonder his leaf in and drive to his best rate. Trout heard all these stories and laughed them to scorn these stories and laughed them to scorn the scorn to the these stories and laughed them to scorn in his merry way, but turning aside from a group in Madison Square Garden, said to sire another 2:30 trotter. Mabel at 21 to sire another 2:30 trotter. Mabel at 21 to sire another 2:30 trotter. Mabel at 21 to sire another 2:30 trotter. Mass and laughed to sire another 2:30 trotter. Mabel at 21 to sire another 2:30 trotter. Mass and laughed to sire another 2:30 trotter. Mabel at 21 to sire another 2:30 trotter. Mass and laughed them belanced, wearing from three to sire another 2:30 trotter. Mass and laughed them belanced, wearing from three to were, in a single case, did I fail in get to ric rival three-quarters of a mile at a two-minute gait, each quarter being paced to unce shoes, in the case of old "Jay-Eye to three. Mabel has four in the list, Miss See," 2:08% (pacing) to eight ounces on a good account of himself if used right, she won more than the classic M, and M. She won more than the classic M, and M. She won more than the classic M, and M. She won more than the classic M, and M. She won more than the classic M, and M. She won more than the classic M, and M. She won more says that in view of that victory she will not be sold for any price, even if she wins no more, and that when her turf days are over she will be retired to Maplewood Farm, a good home.

She won more than the classic M, and M. She find is or such a that his desire may be gratified. We hope that this desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified. We hope the form that his desire may be gratified.

Sired by a son or man damped the trotters. The following mare, and has produced the most speed, and the fastest performers. Mabel was sired by a son of Mambrino Chief, whose years of practice—in the case of others of dam was a producing daughter of the pacer Scruggs' Davy Crockett. The sec-ond dam was by Allie West, one of the four (4) ounces forward and five (5) went the strength of the case of the son of the four (4) ounces forward and five (5) went the case of the solution of the four (4) ounces forward and five (5) went the case of the solution of the four (4) ounces forward and five (5) paragraph as quoted above is just bun- This writer says: "This balancing (?)

thing can be improved on, I can name several of this kind. Not to find fault, but to help them, so that in future years may not be said as it is of Stony ford, there is too much Messenger Du roc blood, and too little of the better blood. There are two breeders well known to RURAL WORLD readers, one who is because he belongs to what he considers a great family. Every man should study these things as he would if he had no interest in the stock, and then present the facts to the breeding public and not endeavor to push inferior blood because of the preconceived opinions of the owner, either from long ownership, or prejudice in favor of a certain family of horses. A fashionable horse may be a good one, and there may be good ones outside of the fashion.

I do not expect to see a fashionably that city, as well as a driver that no Hawkins that has been a consistent meney winner and has just taken a recmoney winner and has just taken a rec-ord better than 2:20. General Withers always used sires that had made reputa-tions at the expense of some one else. Almont, Happy Medium, Aberdeen and Ethan Allen were all sires of speed be-fore they were owned at Fair Lawn. The General always contended that all of his horses would have sons greater than orses would have sons greater than the sire, but he did not want to pay for finding out which one, as he said, was the elect scion on whom the mantle of his sire should fall. Of the five sires in the stud owned by C. W. Williams, possibly each one would have a great following. I for one should consider the chances of Expedition better than any of the rest.

No horse with a world's troting record of any kind carries Wilkes blood. Expe dition has the blood of both branches ton, as alleged, his winning campaign in Hambletonian, in which the world's recthe Lake Eric Circuit and the presence ords are found—Electioneer and Harold, of this young Peorla horseman at those backed by Miss Russell. Expedition's neetings, is significant. One version of dam, a sister to Maud S., should be great the affair from Cleveland has it that the controlling horseman told Waugh to back is no more, the blood will still breed on. the horse at Titusville, while they played Brooklyn Belle, who won, hence the dis-

advantage over the runner so far as improvement in speed, courage and staying dualities are concerned.

"Veritas," the trenchant writer of "News and Views," in the "Trotter and Pacer," who is himself a trainer and driver of acknowledged merit, recently touched upon the subject of drivers and their methods as follows:

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| As may be called a subject of drivers and their methods are follows:

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| As may be called a subject of drivers and their methods are follows:

| As may be called

Give your horse the consideration due your efforts.

THE ART OF BALANCING.

effervescence of Columbus in "Western the Gurant and I was and direct in writing the balancing pacer wavered, weakened and began to of one or more of your horses that I taken from my letter—in the RURAL WORLD, but the item that will interest when you had had my directions carried the save of an Anaconda the moment Curry and I work to the save of the sa is that Aladdin, that was bred in New out? Yes, there are rules—"set rules," stand to the wire neither horse beat a York and brought to Kansas by R. I. If you wish—that must never be deviated Lee, is a Kansas bred horse. Columbus from, if one undertakes to practice the states that the bey stellion. H. D. Person, and one of the inverteble wire. Driven out to the end, Anaconda and one of the inverteble wire. Lee, is a Kansas bred horse. Columbus from, if one undertakes to practice the states that the bay stallion H. D. Parsum of farriery, and one of the invariable might perhaps have paced the mile three-quarters of a second faster, but he was well 6681, son of Princeps, owned by Mr. White, the popular Seventh street livery- foot in hand," so as to look over the man at Joplin, Mo.

surface of it. No. Stand the animal on Broadwell is a much better horse than the people of Joplin have ever dreamed of. The horse has always done a very of his toe, and if the leg is not at a corlimited business, with a very poor class rect angle, take up the foot and with the of patrons. I note that some of the writers who supply Eastern news, are of the foot on the surface that seems to giving Charles Backman fits for having pushed Messenger Duroc to the front to be the deepest. Then stand at the side when he had Electioneer and Dexter of the animal, look down the leg to the when he had Electioneer and Dexter when he had Electioneer and Dexter when he had Electioneer and Dexter foot and judge whether the angle is corporately foot and judge whethe tistic balancing by the appliance of toe weights, side weights, or some of the other monkeyings with the shoes that are on 1888. usually resorted to by the practical (?)
smith, and if by the use of these inartistic appliances your horse does move even ond the cartier to the condition to the condition to the cartier to the condition to the cartier to the cart roc blood, and too little of the better blood. There are two breeders well known to RURAL WORLD readers, one who is pushing forward a fast record, at the yes two pushing forward a fast record, at the yes, it will be a wonder if he doesn't same time he has a grandly bred son of the greatest living sire to-day. The other has a record horse out of a great dam, and is pushing forward a defective horse because he belongs to what he considers "Furthermore, horses' feet do not always"

variably as the result of ignorance of the

Art of Farriery. Other matters are practicing in doing so. A school to teach the art of farriery would be a ing to shoe horses would seem to be an important step in the way of improvement. Faithfully.

RICH, BOYLSTON HALL. THE COUNTY FAIR

want to see the apples all A-shining in a row, want to see the pumpkins and And jars and jars of sweet things just

Like mother used to make

And the you think me flighty and Perhaps a little slow, m longing for the county fair Of twenty years ago.

The aisles were strewn with sawdu The sunshine filled the air With happiness enough for all

And chunks to give away. Perhans I sin't ne Of twenty years ago.

And watch the belies and beaux: In buggies long the homestretch fence, All in their Sunday clothes; Were yelling for the "go. him. He will manifest his appreciation of Yes, I'm longing for the county fair

ANACONDA'S GREAT BACE

Every horseman in the wro to which would be the first to for all were aware that the recor mashing pace would never be maintaine throughout the mile. Into the home stretch the crack side-wheelers swung with less than half a length between

Like The Abbot in his race with Crescom, nothing more or less. Mr. Parlin where says. Ins balancing () can only be done properly with the foot was bound to have Scruggs' Davy Crockett, a thoroughbred, until the evidence was too strong.

An item of news found its way into the control of the contro Prince Alert threw up the sponge.

NEW RECORD FOR ANACONDA.

The time of the mile, 2:01%, is a new

record for him, his fastest former record having been 2:00%. It was the fastest mile of the year by a pacer in or out of a race, and has been surpassed only three times in the history of harness racing by Star Pointer's 2:00%, Joe Patchen's 2:01¼ and John R. Gentry's 2:01½. No gelding ever equaled it in a race. Prince Alert's separate time to-day was 2:02. Anaconda is a bay gelding, by Knight,

day, won the postponed contest with conmate ease to-day in two more beats Curry won a good race with his fast young mare Onoto in the 2:15 class for pacers, driving her first three miles in 2:10%, 2:10% and 2:10%.

The meeting was one of the most successful trotting meetings ever held in New York, the gate receipts for the day of the Cresceus-The Abbot race exceed-This ing \$19,000. The fastest race records of the year

were made by both trotters and pacers and the contests were close and exciting throughout the week. Another meeting will be held next year and it may con tinue two weeks. W. A. Engeman said to-day that he would resoil the track and build new stables before the trotters vis-

KEEPS FLIES OFF HORSES.

Williarm Ward, of Cleveland, called on and told him how flies could be kept off

Ward started in by saying that the winged creatures were bothering the life out of the animals this summer and that he remembered another summer just like

He said that at that time he tried all kinds of preparations for keeping the files off his horses and finally met with

"All you have to do," said Ward, "is to peel an onion, cut it into slices and then rub it all over the horses. For day afterward no fly will bother that horse." Mr. Ricksecker said he would recor mend the treatment to those who applied Cleveland World

> KENDALL'S SPAVIN CURE. Wilno, Minn., May 7, 1900.

Dr. B. J. Kendall Co.

Dear Sirs: I bought a bottle of your Spavin Cure last Tuesday, May 1, from C. J. Winner, of Minneota, Minn, and have used it for a horse that had his front leg injured by a fall under a binder in har vesting. This was three years ago; since that time I have used many other medi-cines but they did no good. So after three years I tried your Kendall's Spavin Cure, one bottle cured, in six days, what other failed to cure in three years, so that I say your Spavin Cure is the horse's

Please find enclosed two cents in stamps for your "Treatise on the Horse and his Diseases." Very truly yours,



St. Charles County, Mo., Fair. Program of the Races
FIRST DAY-September 1 1th.

SECOND DAY—September | 2th. THIRD DAY-September 13th.

THIRD DAY—September 13th.

No. 7, 3:00 Trot or Pace (County Horses)

No. 8, 2:40 Trot or Pace (County Horses)

No. 9, Trot, free-for-all

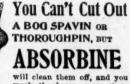
Five per cent entrance and five per cent additional from winners. Four to enter and three to start in all races. Furses of the county of the cou

W. F. ACHELPOHL, Sec., St. Charles, Mo.

A Good Opportunity

To Secure a Breeding Farm.

On Aug. 28, 1901, the Fair Grounds at Mexico, Mo., consisting of 86 acres, will be sold at auction to the highest bidder. These grounds are well located and have a mile and half-mile track.



will clean them off, and you work the horse same time. Does not blister or remove the hair. Will tell you more if you write. \$2.00 per bottle, delivered.

W. F. YOUNG, P. D. F.,

- - - Springfield, Mass THIS BUGGY DIRECT Has good Wheels, Axles, Springs etc. Guaranteed ONE YEAR. Best work, lowest prices. Am Send for Free Catalogue.

A5 Send for Free Catalogue.
OHAS. C. CLARK & CO.
25 S. 1st St., St. Louis. AUCTIONEERS.

JAS. W. SPARKS, Marshall, Mo. Am selling for the best breeders everywhere. Posted on pe di-gree and individual merit. Terms low.

R. W. MITCHELL

LIVE STOCK AUCTIONEER,

GENTRYVILLE, MO.

13" I breed pure bred cattle and hogs, my host
of patrons say I know how to sell them. Write for
terms and dates.

R. L. HARRIMAN, Live Stock Auctioneer Up-to-date in every particular. Am selling for t best breeders in the country. Terms low.

HARRY GRAHAM, CHILLICOTHE, LIVE STOCK AND GENERAL SALES Auctioneer.

J. WEST JONES, LENOX, IOWA, and CAREY M. JONES, DAVENPORT, IA. IOWA'S LIVE STOCK AUCTIONEERS Write before claiming dates

Clover Leaf Farm HEREFORDS
From the best imported and native strains. Farm
situated 2 miles from station; telephone at farm.
Visitors met at depot if desired. Correspondence
solicited. Young stock for saie at all times. W. 6.
SWINNEY, Bols D'Arc, Mo., Greene Co. on Memphis R. R.

Shorthorn Helfers.

vrite for prices.

W. H. FULKERSON & SONS,

Jerseyville, Illinois.

Rams For Sale.

Delaine, Merino and Cotswold cross from noted flock. Ewes sheared average of 13 lbs. Buck 35 lbs. Also two Shorthorn bull caives, reds, at the farm of AUGUST C. ORF, Dardenne, Mo.

H. W. KERR, BREEDER OF RED POLLED CATTLE, Good young bulls for sale. Carlinville, Ill.

FOR SALE.

The best 3-yr.-old saddle stallion on the market.
Also 3-yr.-old premium Jack; together or separate. These are among the best as bred at Limestone Valley. one Valley. They should head a

L. M. MONSEES & SONS. Smithton, Mo.

STALLION WANTED!

I wish to buy or farm a Cleveland Bay Stallion, rom 6 to 12 years old, 1400 to 1500 pounds. Address W. H. GILLIAM, Gilliam, Mo.

Jacks, Jennets and saddle Studs for sale.

LONE RETREAT STOCK FARM, Lawson Mo

FOR EXCHANGE

A Standard pacing stallion with a record of 2.31 1-4 and an 8 year old Percheron stallion, sure breeders, for a good styled saddle stallion or registered troiting stallion of not less than 1300 pounds, or both. Address for full particulars.

CATALOGUES for Shorthorn sales compiled or furnished complete at attractive prices. Address THOS. P. HALL, Breckenridge, Mo.

l particulars, L. E. CLEMENT, Peirce City, Me.

tian and has a horse for sale, breaks the record for honesty in his advertisement

of the animal. Hear him "We have a good family driving horse for sale, providing you carry assurance. "He is not overparticular to feed. In fact, he prefers our neighbors' haystacks

and corn cribs to our own. "We feed him whenever we can catch tim, which is seldom.
"He is partly gentle. The other parts

are not, and you must govern yourself "We will throw in the derrick and tele-graph pole combination which we use to hitch him up with.
"If you are fond of driving, we would

advise you to engage a cowboy that owns a fast horse to do your driving, and be sure and get on top of the barn before he begins to drive the horse.

"For price and coroner's address apply

Because I hold it sinful to despond, And will not let the bitterness of lif Blind me with tears, but look beyond Its tumult and strife.

Because I lift my hand above the mist When the sun shines and the broad

By every ray and every rain-drop kissed, That God's love doth bestow,

Think you I find not bitterness at all?

No burden to be borne like Christian's pack;

Think you, then, I've no ready tears to Because I keep them back?

Why should I bring life's ilis with cold

reserve, To curse me and all who love me? Nay! A thousand times more good than I de-

God gives me every day.

And in each one of those rebellious tears Kept bravely back, He makes a rainbow shine, Grateful I take this slightest gift, no

fears, Nor any doubts are mine.

Dark skies must clear, and when the clouds are past
One golden day redeems a weary year.
Patient I listen, sure that He at last
Will sound His voice of cheer.

Then ask me not, chiding! Let me be, I must be glad, O, grateful to the end, I grudge you not your cold, O darkness-

The powers of light befriend. -Celia Thaxter.

> A DAY AT NIAGARA Editorial Notes.

Since the day when we conned that geography lesson which gave us first knowledge of Niagara Falls, and which the teacher pictured as being so mag-nificent, have we longed to see them with some happy chain of circumstances "we of our old settlers predict a yield of 40 did" the Pan-American Exposition during our first days in Buffalo, leaving the trip to the Falls till the last, and thus the crowning feature of the outling was given four feature of the source of the outling was given four feature of the source of the s given to us last. We had spent the days up," not only in the field, but in price on the Exposition studying the works of man, marveling again and again at his genius; but the Ningara River and its man, marveling again and again and its a brighter prospect. Vegetathe world, genius; but the Niagara River and its kinds are growing to "beat the world,"

trip from Buffalo to Queenstown on the Canadian side, where the river is crossed, and then up to Lewiston on the American and the return to the Rainmiles. Or, if one desires, the American side may be taken in on the morning, reing on the Canadian side later in the The entire trip is made at a very

For a small additional cost the boat may be taken from Buffalo to Slater's Point on the Canadian side, and the jour-ney then made by trolley car or on foot. This was the route we took, even to the "footing" of a good part of it. We made of Dufferin Island, and how we longed to linger in the cool shade of those magnificent arbor vitae trees; and the

came in full sight of the Horse Shoe Falls, with the American Falls farther down the river. To be still was our mood. The roar of the Falls was sufficient. The dashing foam and the fine spray that fell over us as we got to the nearest possible point to them had all a weird fas-cination. Attempted description would be weak. The poet best describes my feel-

Splendor supreme of constant majesty,

charm, At last, mine eyes behold thee as thou

In all the lightness of thy moving grace;

songs, Defiant or triumphant, echoing aye Through vasts of days and night!

were so desirous of having a full comprehension of this portion of the river that we walked from the Rapids on the Canadian side to the Whirlpool. The fith, in the Wellspring.

The boy thought a moment and then said, as the tears rushed to his eyes: "I guess He does tell somebody, and somesudden ceasing of that maddened tor-rent, and the quiet, ceaseless whirl of the waters gave one a feeling that life with its rush and dash had been left, and the borders of the "great beyond" had been m that we might have the best

sters. The latter are most islands, which are cona most magnificent view of the rican Falls. Here we descended a this point we were given a concept of the roar of the water, the weight of the

monds!"

The beautiful green of the Niagara quired."

Home Circle River is one of its great charms, and as we took our parting view of the Horse Shoe Falls, with the sun low in the west

We found in this trip much of historic at another time.

Written for the RURAL WORLD CALLING FOR ABSENT MEMBERS.

Has Idyll "dried up and blown away" during the disastrous drouth that has prevailed in South Missouri? We spent six years in that part of Missouri and were so interested in Idyli's venture we open the RURAL WORLD each week longing for an other peep into her home life and surroundings and are always disappointed. "May Myrtle" must have gone to spend the heated term in her "cottage by the sea" or have some other work out of range of the Home Circle

Thanks, Ella Carpenter, we have so

enjoyed that trip on the coast.

Ina May, we are at sea, as it were, for we had a very remote idea that we knew you, or of you, but your last article threw us out of our reckoning. We wonder if other readers enjoy per-

home life of each Home Circle writer. That is the prime reason for the popular-ity of May Myrtle, Idyll, Kit Clover and words on subjects that none of us care a fig for. In the biographical sketch accompanying Ella Carpenter's picture we are given a clear insight to her past and present life, and reading between the present life, and reading between the lines we know she has had her share of troubles and failures. The knowledge of her prospective success brings comfort to each of us. We, too, have had our heavy loads of trouble, sickness and failures, and if success is to crown her efforts why should not we, too, succeed? So we ters regarding our fellow-beings that help us to bear and dare. As with Elia Carpenter, our success, too, seems almost assured. There has never been in the history of North Dakota a firer prospect for large yields of grain. Wheat, oats, barley and flax are immense. Some

wonderful Falls, its appalling Rapids, its almost mystic whiripool, its rocks, its islands of bewitching scenery led us into a realm where man gave token of being the created being, and thought soared away beyond self. kota. In fact, the season has been all one,could desire. The only trouble to en-counter now is the possible dearth of American and the return to the Rain-bow City can be made by electric car, with full privilege of stopping as long as one may wish at any of the many points of interest. The distance from Buffalo to Lewiston being something over 30 miles. Or 14 one desires the Arvarian harvest hands. We see the eastern paprobable success, come sad thoughts of the hard times ahead of those in the drouth-stricken sections of country. Why, in some parts of that country it is hard to make a living in the best of seasons and whatever are they to do this year' "There is always a way provided."

Bottineau Co., N. D. "NANCY."

THE PURSE OF FORTUNATUS.

"Thet's an old story," said Uncle Zeph meditatively, "'bout the feller-Fortuna-tus wuz his name-thet hed the purse tangled wild wood beneath awakened the thet allers hed a coin in it, 'nd every love of childhood to creep in and see what could be found; but the roar of the great cataract heard in the distance was a greater attraction that lured us on. It was greated it, there it was again when he opened the purse. I've allers wanted, ever since I wuz a boy, to be a purse a greater attraction that lured us on. We here again boarded the car and soon day, when I wuz a-readin' the sermon on the acid to a basin of water.

The state of the Horse Shoe the mount in my Bible, thet I waked up For chafing, wash the parts with old suddin' to the truth thet I'd hed For-tunatus' purse all my life, 'nd never knowed it.

"Sounds kind of fanciful, p'raps, but I mean that the Bible, with its promises world faswould be kin take a promise dut and use it—use it world be wery word. 'Nd the next time you open mullein leaf boiled in new milk and

good sight better purse than Fortunatus hed, too; fer his only hed one coin in it at a time, 'nd the Bible hez thousands. You kin make your whole life, 'nd your neighbors' lives, 'nd the life of your town, help better black better black at the root of either blackberry or rasprich with Bible promises 'nd blessin's, 'nd there's jest ez much left ez there wuz At last

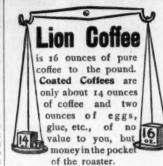
Mine ears drink in thy voice miraculous, in the beginnin'. Other folks couldn't but you're folks couldn't but you kin invite anybody to use the Bible

an air that showed he was going to do you can keep warm this winter?

TOMATOES.—"Good Health," a medical publication, says: "The tomato unques-tionably possesses a high dietetic value, and has been especially recommended for use in cases of blood impoverishment, a suggestion which, perhaps, rests upon the fact that it contains a considerable possible conception of the gorge which has been made by these Falls in the ages past, as the weight of the water wears the rocks and soil away.

On the return trip we made a complete plying iron the tomato is far superior to any of the combinations. past, as the weight of the water wears the rocks and soil away.

On the return trip we made a complete circuit of Goat and Luna Islands, also any of the combinations of iron so commonly used as a means of enriching the bridges. From Luna Island one of the blood. It has long been known that these ost magnificent view of the Falls. Here we descended a ble, however, that they may sometimes roase of 80 steps, after going mber of steps to reach it. At we were given a concent of steps to reach it. gested, while they do not enter into the composition of the blood, they serve to neutralize acid substances which form insoluble salts with the iron of food, and We felt that we had been given a new thus prevent its absorption and assimila-and mighty vision of Nature. One of the tion. In other words, they act as pro-finest views of the Rapids was given as we passed on to the bridge at Goat we passed on to the bridge at Goat of food. The tomato may serve silling. Island. The best description that can be purpose, not only by supplying the fron, given was that uttered by Mr. Chubbuck when he said. "A flood of diabuck when he said. "A flood of diabuck when he said." The tomato may serve silling the silling the tomato may serve silling the silling the tomato may serve silling the



Written for the RURAL WORLD. VALUE OF THE HOME CIRCLE PAGE.

Do we realize what good we farmers wives get from even the Home Circle de-partment of our paper? I wish all iso-lated wives could have it. It seems to broaden our lives to know others have the same thoughts, duties and perplexi-The fraternal feeling it gives is besonal letters as we do? The more per-sonal the better. We love to read of the ling our leisure; never intruding on busy hours, but ready for a leisure moment with some kind word; or perhaps solving a difficulty just then confronting us. They are such dear and interesting others; they write of their own experi-ences, and not long sentences of big friends; we come to love them all in their

your number until a reunion was asked for during the Fair. I really felt jealous I saw a question asked some time since I much desired answered. Why does every one set the price for us farmers, whether we buy or sell? It seems one sided. The whole world is dependent or

ticles, but fear I am staying too long. Greene Co., Mo.

Written for the RURAL WORLD.

conlight nights; its delightful excursions on land and water: its lavishnes of fruit and flowers and all that is mos beautiful in nature, would be perfect were it not for the many petty annoy ances in the way of physical discomfor which warm weather invariably brings remind us that "the trail of the ser

Among the most common and painfu of these ills are insect bites and stings and the various rashes from which chil dren and persons possessed of delicate skin suffer so much. The following simple remedies are reliable and may be new to some of the readers of the Home Circle: A little pure ammonia rubbed on the bite of mosquitoes or other insect will neutralize the poison and generally prevent swelling or inflammation. Oil of pennyroyal dropped at intervals on the face and hands will prevent insect bites and stings, though many people ob-ject to it on account of the disagreeable odor; 50 drops of carbolic acid to one ounce of glycerine will have the same effect, and is less unpleasant. Comm baking soda dissolved in vinegar will re-lieve bee stings, as will also a piece of lean, raw meat bound to the affected

Heat rash or prickly heat may be alleviated by using a heaping spoonful of baking soda to half a pint of water, or better still by bathing in borax water. Another excellent remedy is one ounce of glycerine, one-half ounce of rosemary water and 20 drops of carbolic acid. Hives sometimes come from indigestion or eat-ing some particular kind of food. They may frequently be relieved by washing in carbolic acid water a teaspoonful of

castile soap and warm water in which dissolved a little powdered borax. Dry gently with a soft towel and

dust with some good tollet powder.

Diarrhoea, an aliment more common in summer than at other times, may be your Bible there's the same bright prom-ise lyin' there, waitin' fer you next time you want it.

sweetened is good; another remedy is to stir a tablespoonful of flour into a glass of water. An ice water enema after each you want it.

"When you come to think of it, it's a action of the bowels is beneficial. Black-

Trimble Co., Ky.

SOMEBODY FORGETS.

Defiant or triumphant, echoing age
Through vasts of days and night!

At this point in Victoria Park we sat under the great trees in silence and filled our souls with the majesty of the scene before us. A short ride from here brought us to the Rapids. Such turbulent waters us to the Rapids water to the same to

body forgets. The saddest thing about this answer is its truth. God is not unmindful of His

little ones. Whether they are in want of fire or food or advice or sympathy, He calls us to supply the things that are needed. He tells us that every act of kindness or helpfulness done to the least or lowest of His creatures, He will count as done to Him. But not all of His purposes are carried out; often because we choose our own pleasure rather than His will, often because somebody forgets. Somebody forgets! That is one of the reasons for the pinched faces we see sometimes, and which haunt us for days after, for half-clad, shivering bodies and for cheerless homes. That is one of the reasons why there are children in this dear land of ours who have never heard Christ's name except in curses. It is the explanation for more than half the str "Am I among those who forget?"-Be

hind us. The future seems great enough to hold everything we desire. But after all, we never have a single day except the present one to really do, or decide anything in. To-day is our opportunity.

WHEN THAT OLD HOSS

Well, yes, the world was fresh and gay And life was worth the living, to And work in them ole times seemed play And skies was always clear and blue And ne'er a day in all the year On which at toil no song I sung; O! still the memory stays to cheer Of days when that ole hoss was young

You want to buy him? Not if I Have any 'quaintance with myself! hundred-fifty! 'Twould n't buy His cast-off shoes upon that shelf!
For many years, through sun and rain,
To that old hoss I've fondly clung;
His neigh brings back the joys again Of days when that ole hoss was young

drove him in my courting days Up hill, down dale, through field and wood:

He shared my love in horsely ways, He heard our vows, and understood! The children came; he loved them all, As fearless to his mane they clung; He mourned them lying 'neath the pall In days when that ole hoss was young!

Out yender in the medder green You see them four ole pine trees stand, You see a tall white stone between You see a tall white stone between And five small ones on either hand? Vell, neighbor, she and they would rais And taunt me with accusing tongue, f I should e'er forget the days,

Written for the RURAL WORLD. THE MUSIC OF THE FARM.

n California is the mocking bird's song, the sighing of eucalyptus trees in the eze and the murmur, swish and boom waves upon the sands and rocks

the shore.

Thee," were too antique.

Thee," were too antique.

Jake and Mary raised a few pigs and a good many chickens.

One day the doctor died and his propricts in the East. I have often awak-

Other sounds I nearly because they wand the labor so common and associated with the labor of the fields. I refer to the rattle of farm machinery and noises of domestic animals which seemed to denote impatience and discontent. The most cheerful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, dogs barking and careful sounds I remember to have heard were made by boys whistling, were healthy and happy.

One day the man Jake worked for said:

In the census, through the transparent light through the transparent light through the transparent light through the remember to separate the bad from the large good ones. For counting and examining 1,000 eggs they receive 17 cents. It will be seen that the route followed by the egg from the farm to the market is not very direct. And yet, how much money would be rendered should small

Sometimes a doctor orders a room to be disinfected and if this is not done properly it might as well not be done at all. The Delineator gives the following direc-tions: Soak two teaspoonfuls of pow-dered gum tragacanth in a pint of cold water for an hour, then place the bowl in panful of boiling water and stir frequently until the gum is dissolved. Have newspaper cut into strips about two inches wide and paste six thicknesses to hung on to his which you leave the room to be sealed after the fumigator is lighted. If there is a fireplace in the room it must be covered with several thicknesses of thick brown paper. The gum tragacanth is washed off and does not discolo

TO KEEP CISTERN WATER SWEET. Most housewives know how rapidly the most housewives know now rapidly the water in a cistern collects impurities, and they also know what a troublesome, though necessary, task the cleaning out of that cistern is. Well, it need not be done nearly so often if you get 10 cents worth of charcoal; fasten it up in a muslin bag, with one or two stones, and sur pend it in the cistern. The stones kee the charcoal immersed in the water, from which it seems to attract all impurities If it is renewed say once a month, the cleaning out of the cistern, under or-dinary circumstances, need only be done



Is indispensable to athletic success. In training, much stress is laid upon diet; careful attention to the quantity and quality of the food eaten, with regularity of meals. That is the secret of strength for every man. No man can be stronger than his stomach. The careless and irregular eating, of business men, causes disease of the stomach and its allied organs of digestion and nutrition. There can be no sound health until these diseases are cured.

cured.

Dr. Pierce's Golden Medical Discovery cures diseases of the stomach and other organs of digestion and nutrition, and enables the body to be built up into vigorous health by the assimilation of the nutrition extracted from food.

nutrition extracted from food,
"I was taken with the grippe, which resulted
in heart and stomach trouble," writes Mr. T. R.
Caudill, of Montland, Alleghany Co., Nr. C. "I
was unable to do anything a good part of the
time. I wrote to Dr. Fierce about my condition,
having full confidence in his medicine. He advised me to take his 'Golden Medical Discovery,'
which I did. Before I had finished the second
bottle I began to feel better. I have used nearly
six bottles. I feel thankful to God for the benefit I have received from Dr. Fierce's Golden Medical Discovery. I can highly recommend it to
all persons as a good and safe medicine."

Dr. Pierce's Pellets cure constination.

Poultry

GOOD WEATHER FOR CHICKS.

Editor RURAL WORLD: "Ill blows the wind that profits nobody." The dry season that we are having is very favor-able to the health and growth of young chickens and turkeys. This puts the chicken man right in the push. If he is also engaged in farming it is a case of loss and gain with him, and he can better afford to be contented with things as the All Wise sees fit to give them to him, than if he were all loser. Viewing it from another standpoint it is not so flattering after all. The continued drouth will be bound to run the price of feed up, and the very favorable season for the young fowls will have a tendency to lower the price of poultry products. Hence the scale of balance may go over on the wrong side, after all. But when a man rong side, after all. But when a in the "fancy" and puts the price of s in the Tancy and puts the price stock himself, he will come out right sidup any way.

E. W. GEER.
St. Francois Co., Mo.

Editor RURAL WORLD: When John and Jake Smith reached the age of 21 they both got married. John married a doctor's daughter, and Jake married a farmer's daughter. John got a little start with his wife, the doctor making them a present of a handsome piano and furnish-ing their house in up-to-date style. Poor Jake and Mary struck hard luck, didn't get anything but the preacher's blessing. John seemed to change; Jake was the me old Jake, but John had grown cold, had got his ear educated to the latest se-lections in music. The common old church songs, like "Nearer, My God, to

You see Jake and Mary had gained the confidence of the well-to-do people and their credit was good. Well, they bought the place and went after it according to instructions. Yes, sir, they paid out on the place and soon bought another 80 acres. Jake and Mary made a good team, and the little folks were naturally

Did you ask about John? Well, John newspaper cut into strips about two inches wide and paste six thicknesses to-inches wide and paste six thicknesses to-hung on to his shoddy aristocracy until gether. Paste these over the cracks of doors and windows, leaving the door by one day his wife ran off with a patentmedicine man, and John himself went to aration for winter laying, says teaching music lessons and living on lace's Farmer.' what he could get.

No, this is not much of a chicken yarn, t was Mary that could tell the chicken yarns, and she did not have any birds and score cards mixed up with it, either. The speckled hen and the top-knot her tot due notice, and it was just plain chicken from start to finish. Cláy Center, Neb. M. M. JOHNSON.

THE EXAMINATION AND SORTING OUT in the fields and reap the harvest. They don't need a single thing in addition to this.

The egg is to the kitchen what verbs

We are often advised to bestow espe-

The egg is to the kitchen what verbs are to speech. It is the necessary ad-unct of the majority of sauces, of all ood that passes through the digestive tracts without fatiguing them, and that becomes assimilated in our organism of our meals and constitutes a true bill is a constant supply of pure drinking of fare in miniature, in which bread and water and dry sleeping quarters. And it when you have extractive matters, in which the albur takes the place of a roast, in which butter abounds in the form of fatty matter; in which the chlorides, lime, magnesia and iron are not wanting, and in which in small quantities the lecithine velopment of the bones. It is, upon the whole, a complete aliment which, like milk-and, in many respects, like the grape—affords, without resistance to de-gestive action, the materials that enter The newly-laid egg is entirely filled with yolk and white enveloped by a

the shell equaled that of a metallic box. But, unfortunately, such is not the case. The calcareous shell is provided with pores, through which is soon established a cross circulation of water and mirobes. The water leaves the albur

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sale by grocers, prefer to do without them rather than run the risk of being deceived in their purchase. The egg trade, as it is carried on to-

day, especially in France, leaves much to be desired. The production of eggs, too, is, as a general thing, the result of chance. Upon farms, hens lay just about ond many chickens.

One day the doctor died and his property was chiefly old standing book actorized to hear the sweet warbling of the birds, tying with each other in rapturous strains of melody. The notes of meadow lark and thrush on fence and bush, by wood and road side, and sound of distant, tinkling belis were indescribably sweet and dreamlike.

I will not forget the frogs, whistling shrilly and croaking sonorously in the meadow stream beyond the barn, and the whippoorwill plaintively calling to his absent mate; nor the pathetic cricket's cry and the katydid which seemed to fortell the approach of winter and of the winter time of life which would be so cheerless without an abiding hope of better things to come.

Other sweet and the many of the birds, and the winter time of life which would be so cheerless without an abiding hope of better things to come.

One day the doctor died and his proposed to be deady the doctor died and his proposed and the production of eggs, too, is, as a general thing, the result of chance. Upon farms, hens lay just about as they please, and the person who dedicance, type farms, hens lay just about as they please, and the person who delives the greatest advantage therefrom had lost his wife was a total stranger to it.

Jake and Mary were as happy as a pair of larks. Jake came home evenings, shrilly and croaking sonorously in the meadow stream beyond the barn, and the person who delives the greatest advantage therefrom is not the farmer, but the egg collector—an individual who leads a nomad life and bair of others. In his daily travels also not really the person who delives the greatest advantage therefrom is not the farmer, but the egg collector—an individual who leads a nomad life and bair of the sum and the products of his pergrinations and ships about gardens! Mary knew just how to raise the best of everything, and chickens.

Before long the view of the farmer, but the egg collector—an individual who leads a nomad life and shor of others. In his daily toon tone, and the product ter time of life which cheeries without an abiding hope of betcheeriess without an abiding hope of betcheeriess without an abiding hope of betcheeries wages were tucked away in the family pocket book, and Mary paid the proportion of hinety-two examiners, with a foreman and several assistants. The function of these men, who are placed under oath, consists in examining the eggs in the family pocket book, and Mary paid the bills and would drop in a few dimes foreman and several assistants. The function of these men, who are placed under oath, consists in examining the eggs in the family pocket book, and Mary paid th

"Can't do it, says the man, "make a payoner enough."

"Bosh!" says the man, "make a payonent, buy a team and you and Mary go fiter it."

very direct. And yet, now much services would be made and how great services would be rendered should small and large producers group their merchandise and the direct services.

THE MOLTING HENS.

Don't feed the old hens any grain durmarket. If they are to be retained and expected to be of any service as winter layers, shut them off as much as possi-ble from grain. The loss of weight which will thereby follow is the very best prep-

The moiting season is here, and the main task before the hen for the next three months is the growing of a new coat of feathers. Grain does not ente into the composition of feathers to any appreciable extent. What the hens need is animal food. Nature has anticipated their needs in this particular, and provided an abundance of such food for them. All that they have to do is to go

cial care upon the hens at molting time. Many people interpret this as a demand for an extra allowance of food, and in accordance with this idea, the corn and wheat ration is increased. The result is

is not wise to make the latter very warm in the belief that the scanty covering of the hens calls for close protection from the chilly air of the autumn nights. Exposure to this air under a dry roof will hasten the moliting process. tion from the chiliy air of the autumn nights. Exposure to this air under a fory roof will hasten the molting process. Leave the windows open tiil November except in times of a threatened storm. Two weeks before this resume grain feedths:

Two weeks before this resume grain feedths: ing, and if the hens are the right sort you will not be able to feed them heavy enough to shut off the winter eggs.

A STRAIN OF LAYERS.

agile shell. It is at this moment that a possess its highest alimentary qualiss. These it would be capable of preto hold to the view that each lot of cockserving indefinitely, if the tightness of erels should come from a different breeder. They thus keep up a succession of new blood, and think they are the gain-ers thereby, says "Wallace's Farmer."

The advantages of strain-breeding ought to be apparent to anyone of orcrobes. The water leaves the albumen and passes to the exterior in the form of vapor, while legions of bacteria enter and fill the air chamber formed by evaporation. This latter causes the egg daily to lose, on an average, half a grain of its weight. We can assure ourselves of this by immersing it in a quart of water containing four ounces of sait. On the first day it will descend to the bottom; on hatched from this pen will be set aside for breeders and this particular. These hens in this particular. dinary intelligence. If a man is trying taining four ounces of sait. On the first day it will descend to the bottom; on the second it will not sink to so great a for breeders and this system of sorting the second it will not sink to so great a correctors and this system of sorting depth; on the third it will remain near the surface, and beginning with the surface, and beginning with the will project above the surface so the owner will hunt up some breeder who much the more in proportion as it is is working on the same lines as himself; older. Such behavior of the egg in salt water may, up to a certain point, be used as a means of control. The loss of weight would not be of so much imporweight would not be of so much importance if it did not keep pace with the
entrance of microbes. Now, it is precisely
the injurious action of the latter that restricts our consumption of so valuable a
food material. Many people, not very
sure of the age of the eggs exposed for

CASH PRIZES
For Poultry Raisers.

The Use and Value of Fresh Cut Green Bone as Pouttry Food. CONDITIONS.

100 CASH PRIZE, Other agr

Care COLMAN'S RURAL WORLD Time for article to be with us extended to September.

OU NEVER CAN TELL



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BUFF ROCKS, S. L. Wyandottes and S. S. Ham burgs. Good game, try me. J. E. HAYNES, Ames, Ill.

CHEAP, BUT GOOD. Young and old stock for sale now at the EGG ARM. Brown and White Leghorn, Barred and hite P. Book. Black Minorca and Bronze Turkeys. rice. CIRCULAR FREE. E. W. GEER, Farmington, Mo.

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South Downs.
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Eight best breeds of poultry.
Shorthorns.
Good stock at fair prices.

B. P. R's. Beautiful as any that grow, Useful as any that cluck of Bred crow. Young stock for sale.) by Write your wants.

Nepenthe Poultry Hanch, New Florence, Mo.

FINE BIRDS.

n or money back. Lt. Brahmas,
, B. Ply. Rocks, S. L Wyandottes
good. H. T. REED, CAMP POINT, E. R. KOONTZ, RICHARDS, MO.,

Breeder of high class White H. Turkeys, Silver L. Wyandottes and Barred P. Rocks. in the relationship. The introduction of for an extra allowance of food, and in accordance with this idea, the corn and wheat ration is increased. The result is that the hens go into the winter rolling fat and their failure as winter layers is fixed from the start.

The only attention which the moiting hens require at the hands of the owner is a constant supply of my delable.

walanche of new blood.

When you have found a breeder whom ous health stands as proof of the fact

DESTROY THE RUNTS.

The undersized, weakly chicks should be destroyed. This is not an agreeable thing to do, but the interest of the owner demands it, says "Wallace's Farmer."
This sort of blood must be kept out of the flock if health, vigor and size are to be maintained. The chick which is noticeably behind its fellows when two months old is permanently stunted. matter what age it may live to, it will never make up the difference. It will be a runt to the end of its days. Nobody has any use for a drop of such blood as that in his flock, and the surest way of keeping it out is to destroy the runt the moment that it declares itself to be such. You cannot figure out any profit or this sort of rubbish, and there is always us to the surest way of lessening dis-

Prise winning birds will not grow in crowded and filthy quarters, no matter how well they are fed.

The flesh of the young and quickly fatthe latter will be more nutritious, taining more nitrogen, and having a

Mothers will find "Mrs. Winslow's Sc



and cure Mange and Canker, kill Lice and Fever Germs, remove Worms and PREVENT CHOLERA, at a cost of

FED Five Cents Per Hog Per Year. A postal gets particulars and book on "CARE OF HOGS," Address Moore Chem. Co. Dept. | 1501 Genesee St.

A REMEDY

EXCELSIOR WORM POWDER, uick exterminator of all internal para-e 7 lbs. \$1.60, \$0 lb. case \$6.50, 10s lb. sack \$11.86. Liberal discount to agents. BLAKE BROS., BOX B, Galesburg, Michigan

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26 registered Shropshire bucks from one to three years old, mostly year-lings; 20 buck lambs; would sell 48 registered ewes; reduction made on five or more to one buyer. Low down.

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uble to answer. H. D. Burruss, R. F. D. 2, Carrollton, Illinois

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Greatest World's Fair Winners. Best all purpose sheep. Greatest wool producers. I keep the best. 100 extra rams for sale. Also Top Jerseys.
L. E. Shattuck, Stanberry, Mo. Shrepshire Yearling Rams and Poland-

Bither sex; good pedigree and individual merit my motto. I will sell you stock worth the money. Call on or address

J. W. HOLES,
Auvasse, Mo. South Down Rams and Berkshire Pigs.

Either sex. Individual merit and choice breeding C. A. McCUE, Auxyasse, Mo,

HAMPSHIRE DOWN SHEEP: The best sheep on on other breeds. Choice ram lambs for sale. Ad-dress Millard H. Orewiler, Shelbyville, Mo. FOR SALE -Angora Goats in lots of 10 to a car

BERKSHIRES.

POLAND-CHINAS.

POLAND CHINAS—We have some extra fancy gilts of 160 lbs., and some fancy pigs of both sex of fall arrow to offer the trade. They are perfect coat and color, sired by U. S. Chief Tecunasch 2nd, U. S. Per-fect I Know, Prince Hadley and Marks' Winchester. d by U. S. Chief Tecumseh Ind. U. S. Fer w, Prince Hadley and Marks' Winchester to \$15; money returned if stock is not sat L. A. Spies Breeding Co., St. Jacob

VIVION & ALEXANDER, the best strains of Poland-China hogs. Jersey cattle and Plymouth Rock chicks. k for sale at all times.

POR SALE. A nice lot of fall pigs, sired by Mis Perfection, dams are Look Me Over and B. U. S breeding. Eggs for setting from best strains of E P. E. chickens; also breed Hereford cattle. Price reasonable.

Huntaville, Randolph Co., Mo.

POLAND-CHINAS. Gilt-edge pedividual merit combined. R. L. ORGAN, Carmi, White Co., Ill.

DUROC-JERSEYS.

ROSE HILL HERD OF OF DUROC-JERSEY HOGS.

A good lot of choice early pigs from sows of pro-lific strains, and a few gilts bred for sale. S. Y. THORNTON, Blackwater, Mo.

DUROC-JERSEYS and W. P. ROCKS.

Duroc-Jersey and Berkshire Hogs! Extra

the economy of the body. These escape pipes are situated upon the inside of the legs, above and below the knees in the fore legs and above the gamble joints in the hind legs, but in the latter they are very small, and the functions are always active, so that moisture s there about and below these orifices or ducts in the healthy hog. The holes in the legs and breathing in the

the hog never. His escape valves are confined to the orifices upon the inside of confined to the orliness upon the inside of his legs. People often wonder why it is that he hog dies so suddenly when he runs rapidly or takes quick and violent exercise by fighting. But when you consider the few escape pipes, their small capacity and remoteness from the cavity where the heat is generated, the wonder where the heat is generated, the wonder is that he does not described in the territory tributary to Kandroule to the order of the show and sale of hogs are taken about 80 pigs and 40 fall glits that are a grand lot. He expects to make a sale this year was bound to be a good one. R. Perfection and Chief Eclipse, his two great herd boars, are looking fine and are surely breeding satisfactorily. We will have more to say of the herd later on.

California has Sold during late year about 80 pigs and 40 fall glits that are a grand lot. He expects to make a sale business for this year was bound to be in a bad way.

How was sold during late year about 90 pigs and 40 fall glits that are a grand lot. He expects to make a sale business for this year was bound to be a good one. R. Perfection and Chief Eclipse, his two great herd boars, are looking fine and are surely breeding satis that he does not die quickly when over heated.-American Swineherd.

makers known to the farm, and he can lose the same owner money as rapidly

SWINE AT THE PAN-AMERICAN.

Editor RURAL WORLD: As the time draws near for the swine exhibit at the Pan-American Exposition (Aug. 25 to Sept. 7), a greater interest is being taken in the same than was at first expected. It seems unfortunate that it was necessary to hold this exhibit in the month of August, and many thought the hot weather would militate against the number of entries that might be made for this show. We have, however, \$60 individual entries, the number of exhibitors of each breed are as follows: Berkshire of each breed are as follows: Berkshire in the generally expressed doubt by the swine breeders of Missouri, Kansus and Western Iowa as to the advotable by the swine breeders assembled and representing the several breeds interested deem it wise to postpone the show until some future date.

"Resolved, That in view of the short-age in crops and the generally expressed doubt by the swine breeders of Missouri, Kansus and Western Iowa as to the advotable by the swine breeders of Missouri, the committees assembled and representing the several breeds interested deem it wise to postpone the show until some future date.

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"Resolved, That in view of Missouri, and we wise to postpone the show until some future date.

"Resolved, That in view of Missouri, and we wise to postpone the show until some future date.

"Resolved, That in view of Missouri, and Western Iowa each breed are as follows: Berkshire premiums for the show. two. The entries are coming from terri- on the extended plan outlined and that two. The entries are coming from territories as far west as Iowa and as far
east as New Brunswick, and South to
North Carolina. Owing to the opportunities offered by the Exposition, aside from
the premiums, to show to the people of

South and Central American countries something of the swine industry in the United States and Canada, the interest in this particular division is greater than was anticipated.

"Resolved, That the committees recommend that a show on the plans agreed upon be held next season, which with favorable crop conditions can but prove successful and creditable to the vast wealth represented by the swine indus-Superintendent Converse has arranged try of the United States."

for a mammoth meeting of swine men to take place on the Exposition grounds
September 5 and 8, at which time speakcall of Chairman Gentry. ers of prominence in swine lore will be there to make such addresses upon dif-ferent subjects as are pertinent to the cause. At this meeting representatives of foreign countries from the government

the business men of Kansas City.
The attractive premiums provided would, under ordinary conditions, have assured the largest and most creditable show of swine ever exhibited.
The protracted drouth made it neces-

sary for many breeders to ship their show stock to market, while others who held on to their breeding stock found themselves short of feed and water, with no LARGE ENGLISH BERKSHIRES—38.00 burs
a sig of either sex; best of breeding. B.
P. R. Chiekens; White Turkeys.
GEO. W. McINTOSH, Monett, Mo.
Breeders who had made large subscrip-

Breeders who had made large subscrip-tions for the show fund and had spent much time and money in fitting up their

sulted in the calling together July 31, 1901, at the Midland hotel at Kansas City.

Mr. N. H. Gentry of Sedalla, Mo., the president of the National Swine Show association, reported that the unfavorable reports concerning the disastrous condicrop conditions were more favorable

Mr. C. A. Stannard of Emporia, Kan., stated that the crop conditions in Kansas were very discouraging to farmers, and this was especially the case with the breeders of swine who depend so largely upon the corn crop. In his opinion the upon the corn crop. In his opinion the exhibit of hogs from the drouth section of the country would be small and the attendance would be very limited. He asked to be recorded as favoring the

Mr. E. G. Rust, the traffic manager of Mr. E. G. Rust, the trame manager of the Union Stock yards, stated that data the opposite type to correct these errors.

The subject and the the opposite type to correct these errors.

The evil results which follow "in" or sand the the opposite type to correct these errors.

The evil results which follow "in" or "new York Farmer."

There is no profit in keeping hogs to see how much cold and heat they can stand, or to see how long they will live shut up in the subject and the the opposite type to correct these errors.

The select a boar or "new York Farmer."

There is no profit in keeping hogs to see how much cold and heat they can stand, or to see how long they will live shut up in a small yard, fed on dry corn and or the the opposite type to correct these errors.

The hogs' legs perform a function not known to any other animal, and that is an escape pipe or pipes for the discharge of waste matter or sweat not used in the economy of the body. These escape

from taking any part was so large that the sire is half the nerd, and it is of the there was no hope for other than a limited show, which would necessarily have vidual, with the best blood possible in his transfer to the street with the sire is half the nerd, and it is of the third that the sire is half the nerd, and it is of the street with the best blood possible in his transfer to the street with the sire is half the nerd, and it is of the street with the best blood possible in his the street with the best blood possible in his the street with the s Upon the inside of the fore legs there was no hope for other than a limow these to be made by exhibitors residing east of

hog are his principal and only means of that while the crop conditions were more ejecting an excess of heat above normal, favorable in his state than in other corn and when very warm the hog will open the mouth and breathe through that the men who had been fitting up herds for the Kansas City that the men who had been fitting up herds for the Kansas City too from storms and cold. So there you show would hesitate about exhibiting in are, with the destiny of the pig in your as well as the nostrils.

orse can perspire through all the its body, same as aman, and cat
its body, same as aman, and cat-

poland-China four, Chester White, Duroc-Jersey two, Small Yorkshire two, Tamworth three, Victoria

INDIGESTION IN PIGS.

The first thing to be done, when it has become plain that the pigs are suffering Address H. C. TAYLOR, Koping, Saline Co., Me.

SHROPSHIRE RAMS, all yearlings, for sale; also my stud ram for sale or trade for one as good.

Address L. G. JONES, Towanda, III.

Bazaar Building, Pan-American Exposition.

Address L. G. JONES, Towanda, III.

diffices who are interested in live stock will be present. The outcome of this meeting will not only be of interest to the amount of food, give it oftener, and in the amount of food, give it oftener, and in the someting water upon fresh lime and slaking it.

HERBERT SHEARER,

Bazaar Building, Pan-American Exposition.

The water should then be diluted further, and it may be made by pouring water upon fresh lime and slaking it.

China and Duroc Jersey swine at Kansas
City, Oct. 7-11, 1901.

The officers of the Kansas City stock
yards provided a large sum for prizes,
which was supplemented by liberal appropriations from the Swine Breeders'
associations, the breeders of swine and
the business men of Kansas City.

three grains three times daily of the pow-dered drug will do to start with, but it should be increased if necessary, and if the vomiting does not cease, add two or three drops of carbolic acid well mixed

clear the bowels by means of a dose of castor oil, and follow with ten-grain doses of subnitrate of bismuth and fitteen drops of tincture of opium, or three grains of much time and money in fitting up their herds, cancelled their pledges and gave notice of their inability to exhibit.

A thorough canvass was made of the conditions affecting the swine industry in the Kansas City territory by the most active promoters of the show, which resulted in the calling the same which is active promoters of the show, which resulted in the calling the same and same powdered opium three times daily in food. can be obtained, they will usually give the best of resuts, or the food may be boiled.

POINTERS ON BREEDING.

Too much attention can not be paid to the proper mating of breeding animals in ditions resulting from the long continued drouth were correct, so far as Missouri apply more to the selection of the sire was concerned. He favored the postponement of the holding of the show until the great in the herd and will determine to a very great extent the type of the whole

> lecting a fine-boned hog. Progeny from such a sire will not bear up the load of a well developed body, particularly when being transported to market.

Early maturity means exemption from

The Pig Pen to the prospects for making satisfactory saies in the drouth section and the consequent failure in obtaining the expected and usual results attending exhibitions; saie in November, and by that time he ought to have an offering of great merit.

"Resolved, That in view of the short-Further mention will be made of this made of this

herd in later issues. herd in later issues.

C. WILSON & CO., Junction City, Ark., to do or how to do it, and such methods writes to the L. A. Spies Breeding Co., st. Jacobs, Ill., as follows: "The pig In the main, the live stock world feel In the main, the live stock when business and the control of the spiece of the control of the spiece of the control of the spiece of the control of you shipped to us last week arrived in that people who are in the stock world reast you condition. He is a much better pig ness intelligently and do not try to both

SUMMER WITH THE HOGS.

Hot weather brings extra ills for the hog to endure. Ills that can operate on a limited extent in cold weather can operate to a far greater extent in the hot days of summer, writes F. X. Mallon in Archer in the "Progressive Farmer."

A FIFTI AND A B Cs of how to keep the 50 ewes, says Samuel Archer in the "Progressive Farmer."

in the cold weather.

into a waste in very little more time than it will use to convert one of the plats into a waste. By dividing the space and using within this period is the season of the a waste. By dividing the space and using the plats in rotation it is possible to keep the swine in good shape, and at the same time give the land the benefit of their droppings. Where the swine root their droppings. Where the swine root their droppings where the swine root their droppings. Where the swine root their droppings where the swine root the same number of wether sneep. With this senson of the Mochair is Down this season, owing to the decree of Dame Fashion, who seems to have placed a veto on the laddes wearing luster goods this winter. The

means disease for the animals subjected to constant contact with fermenting fifth. Hot water is a good disinfectant for the sty in summer. The scalding water kills most of the bacteria that swarm in filth Dusting with lime and ashes is a good thing for the sty in hot weather. Lime and ashes are alkaline, and they correct the acid conditions implied in fermenta-

The swine-grower's nose should be trained to detect the odors around the sty that indicate putrefaction. The sty odor is a pronounced one, and the man with the trained nose can tell when it is formal or abnormal.

In the hot weather, if a large range is

tion and putrefaction

not available, keep the small range clean, and supply daily rations of green stuff to the swine

Feed no soapy slops to swine in the hot weather. In the face of all that can be claimed about hogs thriving on a daily ration of soapsuds, it remains true that Avoid the common error of to-day in se-ecting a fine-boned hog. Progeny from such a sire will not bear up the load of a load of a long time.

COMFORT FOR THE HOG.

being transported to market.

In making the selection of a sire always bear in mind the type you aiready have in your herd on the part of the sows, whether they are too long in the body, too high off the ground, too fine in the bone, too short in the body, or lacking in constitution, etc. Then select a boar of the on positivition, etc. Then select a boar of the onesite type to correct these errors.

Durec-Jersey and Berkshire Hegs! Estra Receding. Receding and satisfaction guaranteed or you may return at my expense. S. C. WAGENER, Pans, III.

THE FUNCTIONS OF HOGS' LEGS.

The hogs' legs perform a function not the hogs common and provided in the production and of good size, an "in" constitution and of good ram is chapter at any than a sight, as a gift, essful show were very discouraging, and such a practice. When animals are strong we will get for our labor. There can not confident we will se

so his coat is sleek, with a nicely tipped

ness without knowing what they ought

than anything we expected—a grand hog in and out of it according as the wind from the tip of his nose to the tip of his blows hot or cold will have no cause to tail. We thank you for your fair treat-

There is no better business than the sheep business for those who unders it. In this respect it is a good deal like

The hogs should have more room in the warm weather, more drink, more succulent feed, and more care in general, than as well as all other animals A hundred hogs in a space that is reaily large enough for but fifty will mean an intensification of all the troubles that belong to pigdom. Sickness will come oftener, and be more intense, and affect a be remembered that moderately stormy.

become plain that the pigs are suffering the whole surface, and dig out every foot offices who are interested in live store of the surface. In a short time it will be present. The outcome of this meeting will not only be of interest on the swine mens, but will increase our trade with the countries to the swine mens, but will increase our trade with the countries to the swine mens, but will increase our trade with the countries to the swine mens, but will increase our trade with the countries to the swine may be made by pouring water upon fresh lime and slaking it. Hernstein, and it may be made by pouring water upon fresh lime and slaking it. The water should then be diluted further and it may be made by pouring water upon fresh lime and slaking it. The water should then be diluted further and it may be made by pouring water. And it may be made by pouring water upon fresh lime and slaking it. The water should then be diluted further and it may be made by pouring water upon fresh lime and slaking it. The water should then be diluted further and it may be made by our may be divided into three, or four, or may be divided into the same of movable from a rain, the same as a chicken, and the may be made by our water, and it may b into a fold or lot, exclusively their own about seeking it. As a general thing they both winter and summer, in which is their house or shelter. In one corner of the cold, and, if they prefer to do so, let the cold in the content of the cold, and, if they prefer to do so, let the cold in the co

dvertising 200 and 250-pound Merino rams were stopped. Range men are beank and file of their flocks at weights, it would help some of the breeds instead of disgusting the ram buyers who go east expecting to find a car load of Merinos and Delaines of 200 pounds weight and upwards, or of Rambouillets of 200 to ept a stud flock, as the best full bloods. This we know from experience, as we arrived our present flock only a few years arrived our present flock only a few years arrived our present flock only a few years. Rambouillet rams that weigh 160 to 200 pounds are big sheep. There are larger sheep and quite a good many of them. pounds are big sheep. There are larger sheep and quite a good many of them, but they are the cream of the flocks and this year the ewe flock sheared 9½ pounds of world part to example the cream of the flocks and this year the ewe flock sheared 9½ pounds of the flocks and the cream of the flocks are the cream of the flocks and the cream of the flocks are the cream of the flocks and the cream of the flocks are the cream of the cre exceptional. It does not pay to exag-gerate in the sheep business.

THE ANGORA GOATS.

nan of Texas, writes to the American shire blood, and have bred in line. Now Sheep Breeder as follows:

show would hesitate about exhibiting in the drouth section, where there would be the made people feel that the spring and summer and the fact that little of the Northwest wool was sold during last year, whereas, The protracted and severe this fall, and if he does it ought to be a good one. Reference and continue in the business, as his specific and the same is any "Ranch and Range."

The slump in mutton and lamb values at market this spring and summer and the fact that little of the Northwest wool was sold during last year made people feel that the sheep and wool business for this year was bound to be a good one. Reference and says they had about 80 pigs and 40 fall glits that are a grand lot. He expects to make a sale in a bad way.

The following resolution, introduced by Col. Mills, was unanimously adopted:

"Whereas, The protracted and severe discovered. The slump in mutton and lamb values at market this spring and summer and the fact that little of the Northwest wool carp of 1900 was sold during last year made people feel that the sheep and wool business for this fruit trees and says they had about destroyed his orchard of apple and about destroyed his orchard. He says: "The pour the silghtest regard for my fences, and apple the silghtest regard for my fences, and apple and the fall hardly fair to condemn a dumb brute for carrying out the purposes for which he was intended. The goat was evidently PROPER CONDITIONS.—Having se-

when disease reaches him.

Thumps in little pigs is caused by too much feed and too little exercise, and is incurable.

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Thumps in little pigs is caused by too much feed and too little exercise, and is incurable.

Thumps in little pigs is caused by too much feed and too little exercise, it will pay for tood, and our experience is that it takes and develop good ones. The boar he is grades. The opening wool sales of the convinces me that the animals were convinc

ANGORA GOATS FOR SALE!

I have about 800 recorded, high class and medium class does and a few old fash ned goats that I will sell at a reasonable price. I am in a position to fill any orders W. T. McINTIRE, Agent, satisfactorily from any standpoint. Address

Kansas City Stock Yards, Kansas City, Mo.

FINE BERKSHIRES

Of the best families at farmers' prices. Write for what you want, or, what is better, come and inspect the stock.

W. H. KER, Prairie du Rocher, ills.

Cedar Lawn, E. H. Rodgers, Proprietor.

Breeder of registered Shropshire Sheep, Poland China Hogs and Shorthorn Cattle. Also Mammuth Bronse Turkeys and Barred Rock Chickens. BUNCETON. MO.

Send for a Strictly Up-to-date BEKKSHIRE BOAR or SOW Worth the Money.

Write J. T. POLLARD, FULTON, MO.

ners to try a few, for a month or two, unless they have been bred in their sec-

larger percentage of animals in the overcrowded herd than in the herd that has
the proper amount of space.

It is not necessary that the pig yard
shall be totally bare of vegetation, but it
will be bare if the swine are allowed to
roam at will over it. Suppose you can
allow two acres of land for a range. If
you let your swine into it, they will
promptly strip every green thing from
the whole surface, and dig out every root
beheath the surface. In a short time it
will be a dreary desert space, all mud in

be remembered that moderately stormy
or cold weather in the South will effect
the flock quite as much as very hard
the South will effect
the flock quite as much as very hard
the surface and a flore as much as very hard
the North, because the animals there are
northern breeders to, which is the housmorthern breeders to, which is the housmorthern breeders to, which is a trong
of the animal in winter. Quite a
number have suffered considerable loss
by crowding their goats into too close a
they are mostly on dry food. It is advisable always to have
been bred in their section before.

WINTERING GOATS.—There is one
other point I would call the attention of
northern breeders to, which is the housmorthern breeders to, which is at tention of
morthern breeders to, which is at the tention

gust and September about one-fourth pound (fluid) of spirits of turpentine should be added to the salt mixture.

SELECTING AND PREPARING THE

The old adage has it that "a stitch in time saves nine." This is only another way of saying that judicious foresight saves trouble and loss. If this is true in the ordinary affairs of life, it is emphatsams were stopped. The stopped and stopped The Delaine or Merino yearling ram runs.

The Delaine or Merino yearling ram runs.

Trams, but we know from long experience that now is none too soon to select and preaders boastingly of far greater weights is damaging alike to breed and breeder. If breeders would get down to business and do less blowing about a few with etters a full-blood or grade flock is. orecder. If breeders would get down to business and do less blowing about a few with either a full-blood or grade flock is business and do less blowing about a term of their top-notchers and advertise the rank and file of their flocks at their real weights, it would help some of the breeds instead of disgusting the ram buyers who in the ram buyers who in

of wool per head, and our yearling ewes to be bred for the first time this fall, will average from 140 to 150 pounds, and it would bother an expert to pick many of them out of a flock of full bloods. BREED IN LINE.—We use the Shrop-

what we want to insist on is, use full-

any of our beginners, and a great many are extravagant in their praises for the animal.

IN MISSOURI.—A gentleman in the Ozark mountain section of Missouri reports having had an increase of over 100 per cent, and that he had only lost one kid, under ten days old, in a flock of 200. He speaks in the highest terms of the Ozarks for the development of a large industry, and, to judge from his description of the country, I do not see how it can well be improved upon. To use his own language: "The altitude is over 1,000 per can per sonally select your ram and know what it is better to do your own sepond. The select a mate for your flock its strong in points in which your ewes may be deficient. If the wool on your flock is coarse and your days reported in the straw are excellent, sepecially if cut a littie green, but they are too fattening a food when thus fed finer texture, but never take a ram of the mutton breed unless he is of the iton of the country, I do not see how it can well be improved upon. To use his community is a former texture, but never take a ram of flock of sheep in the spring of the year. It does not seem to make much difference what kind of roots are fed providing they

sas City has seriously injured the prospect for the show and sale of hogs are ranged to be held in this city Oct. 7-II, 1901; and,

"Whereas, The great majority of the prospective exhibitors residing in the precedented drouth have been compelled by the shortage of their breeding and show herds; and,

"BOLES, Auvase, Mo., breeds and carrying out the purposes for which he was intended. The goat was evidently created to destroy brush, and if you do lot two when thim to do it you should confine him where he will not be able to do any damage.

SICK GOATS.—One of my corresponding the precedent of this year and last has been cleaned up of this year and last h

high this season as they were last. The difference in values in the leading markets is marked. The decline is in a sense uncomfortably sharp. But it should be borne in mind that this decline is in com the swine in good shape, the land the benefit of same time give the land the benefit of their droppings. Where the swine root out all the grass roots, the soil gets little or no benefit from the valuable elements in the animal droppings.

The dirty sty is bad at any time, even in winter, when the cold checks fermentin winter, when the dirty sty is in other way, parasites, worms and in winter, when the dirty sty is in the summer that the manusatum that the manu seem for the dealers in the Twin Cities to run up the price of mutton to higher values at such a time in the retail trade? The point to be made is that the farmers should not conclude that because wool is cheap and that mutton is not dear, there ues than those prevailing. Nor have we any reasons for believing that sheep will of sheep on his farm, though sheep were much lower than at the present time. A

MILK AS A PRODUCER OF GROWTH

There is no food that will make lambs portant, therefore, that the dams are fed and in plentiful supply, such foods as fodders, clover hav and alfalfa among the highest for the purpose, to produce in good form the desired they should be cut in early bloom nicely cured. The finer also, the r and W. P. ROCKS.

Choice young stock for sale. Address.

Choice young stock for sale. Address.

R. S. THOMAS, R. F. D. No. 4, Carthage, Mo.

BIG 2 HERDS Durce-Jersey and Chester White or less tings crated. Write for less-live prices.

In the opinion the prospects for a such and product of the prospects for a such and the they can stand on the ting for the seed in the uniform flock and and the they can stand on the uniform flock and and the the prospect of this kind generally or to see how long stock to one breed if you would have a stick to one breed if you would have and the three stock industry in the Kan city territory had been and contact the product and the torical the product and the three tin the Angora goat seems to be to what the prospect of the kan city territory had been don't contact the product and the three in the Langsray of the state and the torical the prod can well be improved upon. To use his feeder. If you cannot personally select own language: "The altitude is over 1,000 your ram, write to some reputable breeders, is broken and rocky, covered with a variety of brush and weeds; with blue a description of your flock that he may stem grass, and water, pure as crystal, in the greatest abundance."

It does not seem to make much difference what kind of roots are fed providing they want kind of roots are fed providing they are sound and good. The difference between carrots, mangels and turnips in this respect does not seem to be material.

THE REPUTABLE BREEDER.—A As to pastures winter rye is excellent for a sound and good. The difference between carrots, mangels and turnips in this respect does not seem to make much difference what kind of roots are fed providing they are sound and good. The difference between carrots, mangels and turnips in this respect does not seem to make much difference between the man are sound and good. The difference between carrots, mangels and turnips in this respect does not seem to make much difference between carrots, mangels and turnips in the greatest abundance." RANGE SHEEP.

In the greatest abundance."

What more could a goat ask for?

Oregon and Washington had splendid crops of lambs this spring, though not as large as the great increase of last year,

When we will be a specific to see the proper sale of last year, when the same is true of t

SUGGESTIONS FOR SHEPHERDS.

C. A. McCUE, Auxvasse, Mo., will sell he is that are worth the money.

this side at 71%672c and E. side at 736
72%c for car lots, mainly del. No. 3 red stold at 71c and No. 4 (badly cockled) at 80c; etc. 8kd. lots in elevator at 70%c (Sept. price), for No. 2 red, 60%c for No. 2 red, 60%c for No. 3 red, 60%c for No. 3 red, 60%c for No. 3 red, 60%c for No. 4 red, 60%c for No. 5 red, 60%c for No. 6 red, 60%c for No. 6 red, 60%c for No. 6 red, 60%c for No. 7 red, 60%c for No. 8 red, 60%c for No.

at 71c (%c premium) and No. 3 hard at 784c. Spring wheat (ungraded) at 674c. CORN—Cash Market-Lower. By sample—No. 2 yellow sold at 804c; No. 3 yelnominal at from \$89 per ton for ordinary to \$89 for choice. ow at 394,000c; No. 2 white at 62c and No. to \$90 for choice.

Bran quotable E. trk. at 84c in large and \$1.06 per bushel. 86c in small sks. Texas bid 85c for bran in 100-lb, sks, this side.

HAY—Choice clover in demand. Prairie quiet and unchanged. Prices E. trk. as follows: Timothy, \$14.50 for choice, \$13@14 for No. 1; \$12@12.50 for No. 2; clover, \$1160 | 100 pounds.

13 for No. 1; prairie, \$14@14.50 for No. 1

and \$12.50@13 for No. 2; alfalfa, \$14.50.

CASTOR BEANS—Nominal at about and \$12.50@13 for No. 2; alfalfa, \$14.50.

PRICES ON CHANGE. The following tables show the range of prices in future and cash grains:

	Closed Saturday.	Range Monday.	Monday.
Wheat-		-	
Sept.	70% a	70@%@71	70%@% a
Dec.	73% a	72%@73%	73%@% a
May .	78%		78 a
Corn-			
Sept.	60% b	59%@59%	59% a
Dec .	61% b	60144961	60% b
May	.64% a .	63% (663%)	63%6% a
Oats-			
Sept.	37% a	37 @	37% b
May	.40%	39%@40	401/a b
Cash v	wheat, corn a Range Monday	Range Baturday.	Range
Wheat-			
No 9	red 718/69791	14 7914 697984	6954.6971

Oats-No. 229 @38½ 37½@38 21½@22

337½0... 37½0... 21 @21½ 2 north.38½0... 38½0... 24 @.... No. 2 white.394@394 394@.... 254@264 No. 3 white.39 @3914 3814@39 .24 @2414 COTTON.

COTTON-Local spot quotations-Ordinary, 6%c; good ordinary, 6%c; low middling, 7%c; middling, 8c; good middling, 81/c; middling fair, 8%c. WOOL-Market quiet but steady.

Missouri and Illinois-Medium combing.

selling by weight 10c for average re-ts; those weighing less than a pound Horse quotations: ceipts; those weighing less than a pound not wanted. Spring ducks—Choice white &c per lb.; small and dark 5c per lb. 6c per lb.; small and dark 5c per lb.

Spring geese 5c per lb. Young turkeys

12c per lb. for large, 8@10c for small.

Pigeons 75c per dozen.

Spring geese 5c per lb. Young turkeys

12c per lb. for large, 8@10c for small.

Pigeons 75c per dozen.

Ar for full Mr. Yange and others of

hickens 10%c. EGGS—Selling quietly on basis of 11c,

loss off, for average offerings.
BUTTER—Little doing, there being only a light demand for table grades; while other kinds are wanted but are in scant Quotations unchanged; though retail dealers in creamery are holding off and contending for lower prices. Creamery—Extra, 22622½; firsts, 19620c; seconds, 17618c. Country—Choice, 11612c; poor to fair, 9610c; grease, 4c. Dairy— Extra, 17c; firsts, 14@15c. Ladle-packed-Extra, 15@16c; firsts, 131/4@14c.

CHEESE—Jobbing: Twins at 10%c; singles, 11c; daisles, 11%c; Y. A., 11%c; iong horns, 11%c; N. Y., large, 11c; N. Y., small, 111/c. Limburger at 111/c. Swiss,

PEACHES—Receipts good and prices asier. Texas receipts—Fair to choice re-

choice varieties at 55@75c; home-grown sell at 30g40c per bu, \$2,50 per bbl. for ADDITIONAL LIVE STOCK MARKETS er Bureau, Misso oc per bu. box, \$2@2.25 per bbl.

Higher, with light offerings home-grown common varieties plenty and dull at 50c to 75c per bu, and at \$1.75@2.25 bbl. Near-by consigned lots sugar d at 30@50c per ½-bu. basket; Florida Conte sold at \$2.25@3 for bbl. crate,

GRAPES—Arkansas receipts selling at yet—it is growing again and what we were ranged from 1 to 1% inches.

Late corn continues to improve in portions of the central and western sections, for Moore's Early and at 75c@\$1 for Delaware; Concord in \$-1b. baskets 25@30c; and my garden beans that survived the home-grown 45@55c for ½-bu. basket for drouth are full of blooms and young it is very nearly at a standstill, while

GRASS SEEDS-Timothy continues very

OATS—Cash Market—Sales by sample at 38638½c for No. 2; 37½c for No. 3; 38½6 38½c for No. 2 white; 38638c for No. 3 white; 386 for No. 4 white ings small. No. 2 sold E. side at 63%c, and delivered this side at 63c.

MILLFEED—Quiet, as offerings small and the prices asked limiting the demand. Bran quotable E. trk. at 84c in large and fe in small characteristics.

SUNFLOWER SEED-Choice old at \$1.75 per 100 pounds; new nominal at 25c per 100 pounds less.

BUCKWHEAT-Latest sale at \$1.50 per will be

maller lots less. DRIEDFRUIT-Only a few small lots

of the new crop (apples received. These sold at 4½c for sun-dried quarters to 5½c for evaporated rings. Sun-dried at 4½c. evaporated at 5c and chops at 1½c. WHITE BEANS-Demand active; supply light; prices advancing. Hand-picked quotable at \$2.90 and generally held at \$2; prime or machine-picked at \$2.902.35. Lima beans at \$4,25\%c per pound; Call-

fornia pink at 31/2c. HONEY—Comb—Dark at 6@8c; bright HONEY-Comb—Dark at 693c; bright amber at 10@11c; white clover at 11½6 12½c; inferior and broken less. Extracted and strained—Southern in barrels at 42 4½c; cans 4½65c; California more. BEESWAX—27½c per pound for prime. ROOTS—Ginseng at from \$4.25 to \$4.50;

lady slipper at 6c; seneca at 28c; pink at 14c; golden seal, spring dug, 44c; heavy, fall dug 48c; May apple at 2½c; snake at 30c; black at 4c; angelica at 31/4c; wahoo bark of root &c, bark of tree 21/2c; blood

LIVE STOCK

HORSES-The auction supply for the first day of the week was confined to about a hundred head and was smalle than the demand seemed to warrant From the start of the auction, trade was in brisk and active shape and a thorough clearance of offerings was accomplished Fair, Sept. 2-6, at Lincoln, he said it was by noon. Values were on a comparatively satisfactory basis. They were stronger than the opening of last week, considerably stronger than its close. All classe shared in the good demand which prevalled, except the very commonest. The Eastern force of buyers held up their end on the finished chunks, the medium chunks found reasonably good outlet 18%@17c; medium clothing 18c; braid and lew 15@16c; burry and clear mixed, 14@ chunks found reasonably good outlet 15c; slight burry, 12%@13c; hard burry, 10 through local and other speculative chan-

Heavy draft-Common to good, \$125@160;

Pigeons 75c per dozen.

DRESSED POULTRY—Iced stock scalded and undrawn, with heads and legs on: Chickens—Average 64c; roosters 4c. Turkeys—Average 6c. Ducks 7c. All scales are awasting. rkeys—Average 8c. Ducks 1c. All \$5601. Export chunks, 1200 to 1500 pounds tock, including sour, sweating, scrawny, etc., nominal. Spring 11064.

Spring 110c; choice to extra, \$1256150. Saddlers for southern use—Fair to good, \$75690; choice to extra, \$1256150. Saddlers for southern use—Fair to good, \$75690; choice to extra, \$1256150. Saddlers for southern use—Fair to good, \$75690; choice to extra, \$1256150. Saddlers for southern use—Fair to good, \$75690; choice to extra, \$1256150. Saddlers for southern use—Fair to good, \$75690; choice to extra, \$1256150. Saddlers for southern use—Fair to good, \$75690; choice to extra, \$1256150. Saddlers for southern use—Fair to good, \$75690; choice to extra, \$1256150. Saddlers for southern use—Fair to good, \$75690; choice to extra, \$1256100; choice to extra, \$1 choice to exira, \$100@160; fancy gaited and New York saddlers, \$150@300. Inferior

New York saddlers, \$150@300. Inferior horses—Common, small plugs, \$20@30; heavy work plugs, \$40@60.

MULES—The early mule run of the week was light; it included a load or two to dealers and only a few bunches to commission interests. One was a pretty good bunch of big mules and sold at \$140 round, but the remainder were of medium to good quality. The conditions were not quotably changed from last week. Sales quotably changed from last week. Salesmen called the market "fair," which is equivalent to a steady tone. There was hardly enough in the supply to make ap-parent a change in the market. Demands from local dealers did not show any ur-PEACHES—Receipts good and prices easier. Texas receipts—Fair to choice re-frigerator stock 35646c for clings per 4-basket crate; freestones 35660c; Missis-sippl 4-basket crates 40660c, and fance 60 from the South, and its main dependence from the South, and its main dependence

ON PAGE 4.

OKLAHOMA NOTES.

ing raised worth speaking of. Much of the PLUMS—Unchanged. Small red in 1-3-bu. bxs. sell at 35c and pecks at 30c; near-by and home-grown at 25650 per ½-bu. and since we have begun to have showers and 65675c per ½-bu. basket for damsons.—we have not had a real good soaking rain



A VIEW OF THE IOWA STATE FAIR GROUNDS.

resented and more entries are now made than is usual for the time of year. Special efforts have been put forth looking to the comfort of the public, including grounds, conveniently arranged but

sufficient feed to do us. We have 600 bushels of old corn, but when corn gets to the dollar mark we may possibly turn it loose and build a new dwelling with a part of the proceeds, as we need a home badly. We are now living in a log cabin with two boxed rooms and a porch at-tached, and on a different part of the place than that where we wish to build. As I fear this letter has grown in length

nore than in interest, I will close.
"MRS. A. GREENER." Cleveland Co., Oklah

THE NEBRASKA STATE FAIR.

Editor RURAL WORLD: On inquiring of President Vance of the Nebraska State Fair as to the outlook for the coming very promising, judging by the applica-tions for space and numerous inquiries regarding space that are now coming in. In the County Collection Exhibit 12 counties have been assigned space, and the prospect was good for many more county

As to the effect of the drouth on the display of agricultural products, Mr. Vance thinks Nebraska is "more scared LIVE POULTRY — Chickens — Young ings, making values relatively strong the hens 6c; roosters, old or staggy young 2c.

Turkeys—Round lots 5c. Ducks 5c. Geese (top for full-feathered) 3c. Spring chickens selling by weight 10c for average receipts; those weighing less than a constant of than hurt." He admitted that corn has suffered to a considerable extent in some counties, while in others there will be a fair yield, though not up to last spring's expectations. Oats suffered very much, but considering the cash value of the number cellent yield of winter wheat and the al-falfa and other forage crops, the general condition looks better. Mr. Vance esti-

As for fruit, Mr. Vance and others of the Fair Association who have been over the state express great surprise at the prospect for an abundant crop and of fine

live stock exhibits will be as large or larger than usual. So taking it alto-gether, the Fair officials look for an extra good display at the coming Fair. The Nebraska Legislature app

at the last session \$35,000 to be a purchasing land and permanently ing the State Fair at Lincoln. The grounds where the Fair had formerly been held-about 100 acres-were pur chased. Out of the \$35,000, \$18,000 were served for new buildings and repairs. We have now ample accommodations for all classes of live stock and large, roomy building for the display of other exhibits also for the convenience of exhibitors and

The permanent location of the Fair will be appreciated by all classes of exhibit-

A special feature of the Nebraska State Fair to which I wish to call the attention of all progressive farmers, and particu-

The U. S. Department of Agriculture, Climate and Crop Bulletin of the Weath-

Bureau, Missouri Section, for the week ding August 19, 1901, is as follows: The week just closed averaged slightly

warmer than usual, with a high percentage of sunshine in the western portion of Editor RURAL WORLD: Since my last the state and somewhat less than the nor letter we have gone through one of the worst drouths we have had for years; at one time we thought there would be nothcurred in all sections, but the rainfall has been light, except over a few of the exand since we have begun to have showers ities in other sections where the total for —we have not had a real good soaking rain the week ranged from 1 to 1½ inches.

doore's early.

CRAB APPLES—Nominal at 20c per 1-5up. box for near-by.

WHORTLEBERRIES—Scarce. Arkan
beans. We have plenty of watermelons in many of the eastern counties, where of good size and quality. I wish I could the drouth has never been relieved to any great extent, it is almost completely dried of the finest Georgia Rattlesnakes and up and much has been cut. Many corrections to the finest Georgia Rattlesnakes and up and much has been cut. was in demand at \$2.7563 per 6-gal. case.

WATERMELONS—Lower and quiet. two thrown in. I believe you would entry that corn which has per crate on trk., according to size and quality.

CANTALOUEES Unchanged and cute.

CANTALOUEES Unchanged and cute.

All departments promise to be well rep- In the way of amusements more will be ovided than ever before and of quality uantity and variety to please all.
With the best of music, with pleasant

splendid camping facilities.

Great races may be expected, for a large field of horses have been entered. Locomobile races for each day have been

arranged and many exciting features arrangements, free, by addressing the secretary, Des Moines.

prune our vines very close and there has been plenty of leaves to protect them from the sun.

ground moist the late sown forage crops and gardens are growing finely, but in many counties, especially in the eastern content they are parking little progress. been pienty of leaves to protect them and gardens are growing finely, but in from the sun.

Turnip seed planted the 24th of July has not appeared yet, neither has the late planting of potatoes. We mean to sow germinate and in others plants have died to germinate and in others plants have died to germinate and in others plants have died to germinate and in others plants have died planting of potatoes. We mean to sow germinate and in others plants have the more turnips. From our 6½ to 7 acres of from lack of moisture. Stock water considirating, sowed about April 10, we have a fine rick of several tons of hay, cut sometime the last of June. I fear the plants have been so injured that we will not get another crop this year. I will let you know later about this.

Many farmers are cutting up their state little progress can be made until know later about this.

Many farmers are cutting up their state little progress can be made until corn, which makes very fine feed and it is a save-all method. I think we will have considerably in portions of the western sections and though generally undersize will make a good crop in some localit In many counties, however, they are falling badly and the condition of fruit crop, as a whole, has improved but little. In some of the eastern counties many fruit trees are dying.

A. E. HACKETT, Section Director. Columbia, Mo., August 20, 1901.

BENTON COUNTY, N. W. ARK.

Editor RURAL WORLD: We have been reading all the letters from our sister state, Missouri, and we sympathize with her people. Although we have not suf-fered so much, it has been bad enough. We have had no good soaking rain since April-only a shower occasionally--yet we are thankful for that much and the drouth is still with us

Wheat was pretty good, oats nothing Corn a few nubbins, and no gardens; but our fruit trees are breaking down with their load of big red Ben Davis apples (This is the land of big red apples.) Some orchards have already been sold for \$1,500. Our grapes never were better.

Corn is being held at \$1 per bushel. If we can pull our stock through this winter we will try to get through ourselves some way. We have sown late beans, turnips cowpeas and corn, but no rain has come yet to germinate the seed. MRS. S. A. McLANE.

COTTON CONDITION IN TEXAS.

reach 3,500,000 bales, but from present prospects the crop yield will not exceed 2,800,000 bales. In southern Texas, he continued, the cotton prospects are better than at this time last year. The boil weether seeappeared, however, in the countinued the plants of the West.

Prof. Carleton says it is believed that the planting of these seeds will extend to the wheat-growing region westward to the 100th meredian, and will, within a few ties along the lower Brazos, and it may do great damage, as it did last year. It the United States at least 80,000,000 bushwill be remembered that the weevil did not do its destructive work in the Brazos the macaroni manufactories of Europe valley last year until after the September and this country.

Col. Peters said that in North Texa is bound to be a big shortage of the It could be greatly benefited by a heavy general rain, but this rain must within the next two weeks in order

sold this week, as rumored, there has, of Alaskan agriculture. nevertheless, been a good, active week in Boston. Oregon wool has sold freely at 141/2c for good No. 1. The fine and coarse wools have alike received attention. Fine Nevada sold at 46c clean for short wool early in the week, but the sale could not now be duplicated. Heavy sales of braid wool at 18c and 18½c are reported. Prices tend steadily upward. Sales of goods show to lease land in the Illinois rive tend steadily upward. Sales of goods show to lease land in the Illinois river bottom a handsome advance or er last year, and a full season's product of cloths is assured. The advance of 5c a yard on staple worst-ods this week and a second advance of 5c experience of 5c a yard on staple worst-ods this week and a second advance of 5c a pound on yarn has done much to help the market. The receipts of wool in Boston since January 1 have been 166,315, once third yield. Much of the early corn period in 1900. The Boston shipments to part of the corn of the proof of 1900. The Boston shipments to past been cut up for forder and streng for the corn of the proof of the pr period in 1900. The Boston shipments to has been cut up for fodder and stored for

for our WINDMILL BOOK

The man who knows most about windmills has written a book. It is a 40-page book with more than 100 pictures. To the man who wants a windmill every page of the book is interesting. Not a word will he skip. And when he is done he will know all that anybody knows about windmills and what they should do. He cannot be fooled; but the man who buys a windmill without reading this book will regret it. Simply send us your address and the book will be mailed to you free.

The writer of this book is president of the Aermotor Company.

But the book is not biased, nor unfair. It is a book of information, written by the man who knows more than any other man about

We are not trying to sell you direct. We simply want to tell you the facts that may save you a costly mistake.

Half the cost of your outfit is in putting up and taking down. You can't get that back if you make a mistake.

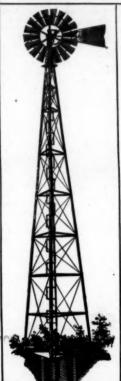
When you know the facts, get the windmill you want; and if you decide on an Aermotor, you can go to your dealer for it. We will give you the name of agent nearest to you.

The writer of this book started in twelve

years ago to make Aermotors. The field was overcrowded. Makers with millions of capital, and tens of thousands of agents ontrolled all the trade there was, The Aermotor Company had little capital

no trade, no agents, no reputation. 'Twas a pigmy among giants. That was twelve years ago. Today the

more Aermotors are sold than of all other windmills put together.



That is a record with scarcely a parallel in the history of invention. The book will tell you how it was done.

5,000 experiments were made before the first Aermotor was built. Sixty-five windwheels were tried before the right one was

He tells you how he knew that was right. He shows you why Aermotors work in the lightest breeze, when all other windmills stand still.

He kept on improving until 55 patents had been issued on Aermotors, covering 55 important features no other windmill has.

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More than half the world's windmills are now made in this factory; made by perfect machinery, in such quantities and so cheaply, that Aermotors cost far less than any other windmill worth having.

No man who reads this book will buy any windmill but the Aermotor. He will know why the majority buy Aermotors and he will demand what they seek. He will not be content to pay more than our prices for a windmill half so good. That is why we issue the book, of course. But it is better for you than for us. It saves you all you would waste if you bought the wrong windmill. It gives you the knowledge you need to avoid a costly mistake. Write a postal for the book.

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We have another book about Power Aermotors for doing all sorts of work—for grinding, for sawing, for cutting feed, shelling corn and running many kinds of machinery. This book is free, too. Also a book about Pumps, Tanks, Substructures, Pipes, Fittings and all sorts of Water Supply Goods. We make 160 Tons of Piping daily. Our plant occupies more than 30 Acres. This is considered a pretty good sized farm in New England.

HARD WHEAT EXPERIMENTS.

Austin, Tex., August 16.—Prof. Mark
Alfred Carleton, cereal expert of the
United States Department of Agriculture,
was here to-day on his way to points in
the semi-arid region of west Texas, where he goes to arrange for a series of experi-ments in the growing of hard, or maca-roni, wheat. He says that he has made Austin, Tex., August 16.—Col. E. S. Peters, of Calvert, Tex., president of the Texas Cotton Growers' Association, in re-Turkestan, Algiers and Argentine in the sponse to inquiries to-day as to the cotton crop condition in this state, replied that under certain highly favorable conditions, which are unlikely to occur at this stage of season, the cotton yield of Texas might reach 3,500,000 bales, but from research

ALASKA FARM CENSUS.

Washington, August 16.-The ureau to-day issued a report on the agrito do any good. The plant is fruiting prematurely, which is the best indication of a shortage of yield. In central Texas the situation is even worse than in North Texas.

Col. Peters said that Harvey Jordan, of ments. Buildings have been erected on cultural statistics for Alaska. It shows basket crate; freestones \$5660c; Mississippl 4-basket crates \$660c, and fancy \$660c per 6-basket crates \$660c, and fancy \$660c per 6-basket crates \$660c; Akmass \$162.55; 1-3-bu. bxs. \$2650c; 6-basket crates \$660c; Akmass \$162.55; 1-3-bu. bxs. \$2650c; 6-basket crates \$660c; Part 10-basket crates \$660c; Par

HAY SELLING AT \$18 A TON.

period in 1900. The Boston.

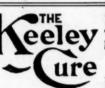
date are 157,344,06 pounds, against sales of \$24,250,00 for the same period in 1900.

The stock on hand in Boston January 1, 1901, was 76,399,500 pounds; the total stock to-day is 67,337,389.

LAND WANTED FOR CASH.

Improved farms, large and small, productive soil and permanent water, conductive soil and permanent water, consist air without annoyance. The weeds have also been destroyed by the drouth, and in fact many advantages will follow side drive of an evening tells more forcing than the proposal of the CANTALOUPES—Unchanged and quiet.
Rocky Fords sold at from \$26.50, and \$26
2.5 for 2-3 crates. Home-grown plentiful; or 2-5 crates. Home-grown plentiful; or 2-6 crate for fancy; Alton. Ill., gems 156
2.5 for 2-3 crates. Home-grown gems on the fancy of the decadence of bleyele and years of the fancy of the decadence of bleyele ont know its name.

Our truit is fine considering drout consistend so long. We considerably damaged by chinch buss and permanent water, considerably damaged by chinch buss and permanent water, considerably damaged by chinch buss and permanent water, considerably damaged by chinch buss as plendid flavor and a good acid, bave also been destroyed by the drouth, eastern counties, is doing fairly well; some is dealth, as a splendid flavor and a good acid, bave also been destroyed by the drouth, eastern counties, is doing fairly well; some is dealth in fact many advantages will follow on the fair without annoyance. The wedstancy of well-the counties of the drouth, eastern counties, and in fact many advantages will follow to reliate the form of the counties of the drouth. A glance at the bicycle eater water counties, and in fact many advantages will follow to reliate the form of the counties of the drouth. A glance at the bicycle eater water counties, and in fact many advantages will follow to reliate the form of the counties of the counties of the counties of the counties of the



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DR. J. E. BLAINE, Physician and Manager Home Treatment for Tobacco and Neurasthenia. Local and long distance telephone. Lindell 185,

COLLIE PUPS—Golden Sable and White, whelped
June 25; as finely bred as any in the country. Say what job and full pedigree write to J. L. GREENLEE, Kahoka, Mo.

POLAND-CHINAS. Agrowthy, heavy-boned, March and Agril boars and sows, sired by Chm. Kings U. S. 1429s, and out of gilt edged dams; also Angue cattle. J. P. VISSERING, Box 13, Melville, Illinois (Near St. Louis).

WANTED: Every Fruit Grower to send name and address for Valuable In-formation Free! Your penny back if you are not present Write to day.

ORTIZ FRUIT FARM, Mexico, Mo.

STOCK FARM FOR SALE.

Boston, Mass., August 16.—The Boston come from vegetables. Next to vegeta: biles grass cut for hay and ensilage is the most only improvident during the favorable seasons, but that we are all inordinately grasping money worshipers. There has not been a more favorable time for the exercise of common-sense for a capital invested, poultry-raising in 1899 of the entire wool clip of Oregon has been was relatively the most profitable branch long time than the present, and every one should profit by the ordeal of the preseason. Nobody is going to starve in Mis-souri, although it may require a little ex-tra exertion to make all ends meet for Pekin, Ill., August 16.-The hay crop the next ten or twelve months. The very best way to do it is with "a stiff upper lip."-Fulton (Mo.) Telegraph

WALNUT LOGS FOR GERMANY.

this country and sold at fancy pri Walnut timber is becoming very in this country and commands a

NORTHERN GROWN SEED.

Timothy Seed (new crop)... White Rye ssex Rape......8c per lb.; \$7.50 per 100 lbs. American A Bags löc each extra. Choice Hardy Varieties of Fall Wheat. Write For Prices in Large Lots. We are the the transfer for Choice low a Grown Seeds.

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Write today for description and prices of Winter Wheat, Rye, Timothy, Blue Grass, Etc.

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